

THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY

CONNECTICUT

INDUSTRY

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Published monthly by the Manufacturers Association of Connecticut, Inc., with executive offices at 928 Farmington Avenue, West Hartford, Connecticut. Entered as second-class matter January 29, 1929, at the post office at Hartford, Connecticut. under the Act of March 3, 1879. As the official magazine of the Manufacturers Association of Connecticut, Inc., it carries authoritative articles and notices concerning the Association activities. In all other respects the Association is not responsible for the contents nor for the opinion of its writers. Subscription rates: one year \$3.00; 30¢ a copy. Subscribers should notify publisher promptly of changes in address. Advertising rates on application.



THIS MONTH'S cover photo shows assembly lines at the plant of Clairol, Incorporated, Stamford. While the automatic machines rotate, bottles roll swiftly down the lines to be capped, labeled, boxed, cartoned and shipped.

L. M. BINGHAM, Editor

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Too Many Umbrellas

By JACK T. F. BITTER, President*

The Parker-Hartford Corporation, Hartford

♦ ALL will agree that man has come a long way in his development during recent years. Most people will say that it has been a wonderful accomplishment. Man's most recent accomplishments, leading to the use of the atom, can only accelerate this improvement in his standard of living. Hard work, both mental and physical, has produced these accomplishments. At the same time, seeds of destructive philosophies, ideals and practices were planted. If allowed to grow and spread, such practices will smother and kill the good as sure as weeds will kill the grass if we do not recognize and eliminate them in time. History tells us that previous civilizations were destroyed because the people became soft and complacent. Some say that history is repeating itself and they can cite many convincing arguments to prove their points. Let us now look at some of these.

The man who works for others has improved his lot tremendously in recent years. He now works, on the average, five eight-hour days each week, enjoys six to eight paid holidays, a two week paid vacation, paid funeral leave as well as company paid hospital insurance, life insurance and other benefits. In wage negotiations most unions discriminate against the skilled worker in favor of the unskilled and many encourage featherbedding and other uneconomical practices. Therefore, it may be said that a labor union holds an umbrella over its members and protects the incompetent while discouraging the willing and competent worker. The feeling of security a union contract gives a union member tends to eliminate the drive which makes most men do their best in their jobs. Many will agree that this union umbrella has helped the working man attain a respectable place in society. However, in recent years, that umbrella has been used, not when it was raining, but when the sun was shining. Often it has been used to get pay increases not warranted by increased productivity. This has helped to feed the flames of inflation.

Probably the majority of people will assert that most of the recent social legislation has been for the good of man. Yet, this legislation is another umbrella held over man which, although giving him a feeling of security, can destroy his drive to provide for himself. Pension plans and unemployment insurance entirely paid for by the employer, old age assistance paid in part by the employer, free clinics, hospitals, old folks' homes, youth centers and schools and summer camps for the underprivileged, can, if carried to extremes, make man too dependent on the other fellow.

We read in the papers about our youth problem and juvenile delinquency. Yet, are not some of the things we are doing to help solve this problem responsible for creating a greater problem, and is it not feeding upon itself? Are we not coddling our youth too much by holding an

umbrella over them? When they have grown up and should be matured and ready to stand on their own two feet we find that too many are failures because the home umbrella discouraged the maturing process. For our children we provide transportation to and from school, elaborate school buildings and facilities and a curriculum encompassing every possible study. We tend to rear them in a make-believe world oblivious of the many facts of a realistic world. As evidence that our youth are becoming soft one may refer to the many newspaper stories of gang fights. Today the youthful hoodlum uses a gun, a knife or a chain as a weapon where he formerly used only his fists or a wooden club.

Business and industry also has its umbrella which it is too prone to put up too often for its own protection because it affords the easiest way out. Within our federal government we have the Small Business Administration for the small businessman to use as a crutch. He expects it to help solve his sales, manufacturing, financial and other problems. He is taught to look for sympathy and help on the basis of size. He is the poor little fellow fighting the rich and powerful business. He expects and demands help from government to make up for his own lack of ability and planning. Big business, likewise, puts up its umbrella too frequently. It demands protective tariffs and government orders to maintain steady employment and reasonable profits.

Even government itself can be accused of relying on the other fellow to bail it out. Local, county and state governments will fight the encroachment of federal authority but will welcome with open arms federal funds to support its roads, schools, welfare and other projects.

If the foregoing facts are accepted as fundamentally true, it then stands to reason that our social legislation, our moral responsibilities, our responsibilities as parents, employers and employees, if not tempered with good sound reasoning and judgment, can boomerang. In the animal kingdom and in plant life the law of "the survival of the fittest" still prevails. We cannot ignore this since it is still a fact. The Creator of the world made it so. However, He also created man with a higher form of intelligence—an intelligence both capable of enjoying freedom through acceptance of the personal responsibility necessary for its maintenance and of helping his unfortunate brothers to help themselves. Although the law of "the survival of the fittest," which applies to other forms of nature, was modified in man's nature to encourage the strong to help the weak to gain strength, nowhere in the Bible records was man urged to encourage weakness. Instead, each man was urged to use his inherited talents to the full in order that he might increase them. If he failed to use them to the full his punishment was the loss of his inherited talents.

Yes, there is widespread evidence that our laudable humanitarian instincts have been misdirected to create "too many open umbrellas" that blight, rather than stimulate, the growth of our natural talents. If we desire to remain strong enough to be free then it is none too soon to close some of our umbrellas that are now producing softness and complacency among all groups in our society.

^{*}Mr. Bitter, author of this month's guest editorial, is a graduate of Suffield Academy and of Colgate University, where he received an A.B. Degree in 1932. After serving two years in the Cashiers Department of Travelers Insurance Company, he joined the Parker-Hartford Corporation in 1934 as a salesman. He was elected secretary, assistant treasurer and a director in 1936 and president and treasurer in 1953. He is a director of MAC, past director of the Hartford Chamber of Commerce and former president and director of the National Marking Device Association. He is a member of numerous clubs and the Society of Plastic Engineers.



The main entrance to the new Clairol plant in Stamford. Clairol's manufacturing facilities have increased 70 times since the start of the company in 1932.

Growing with the Beauty Industry

Clairol's quarter century of growth closely paralleled that of the beauty industry.

TWENTY-FIVE hundred representatives of the beauty industry gathered at New York's Waldorf-Astoria Hotel early last year to celebrate the 25th Anniversary of the introduction of modern haircoloring methods to the United States.

These people were doing more than paying tribute to the birthday of a single company, Clairol Incorporated of Stamford, Conn. They were watching a salute to the fantastic growth of their own profession during the years that haircoloring came into its own.

Most of the people in the industry were deeply aware of how closely the growth of Clairol has been tied through the years to the growth of the beauty industry. In haircoloring's most suc-



The Clairol Institute of Haircoloring in New York is the most modern training center of its kind in the world. Program includes free equipment, books, and instruction in up-to-the-minute haircoloring techniques.

Here is a section of the main laboratory in Stamford, where many of the industry's leading chemists work constantly on new haircoloring formulations.

cessful year the professional beautician earned more respect and business prosperity than ever before.

Beauty culture has become one of our most important vocations, with beauty schools and colleges training thousands of students to the constantly growing standards of the profession. National, state and local associations of beauticians throughout the country add further to the professional standards of the beautician which help to make the American woman the best-groomed, best-coifed lady in history.

Clairol Product Sparks Industry Growth

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Recognizing this desire of most women for self-improvement, Lawrence M. Gelb first introduced Clairol Oil Shampoo Tint in 1932. Haircoloring was probably in the most primitive state of all the services the beauty salon had to offer at that time. Nowadays, an estimated three out of ten women seek some type of haircoloring service at a beauty salon.

Today, survey after survey shows haircoloring to be the most important single service in thousands of salons throughout the country. It is the most talked about and most written about cosmetic in leading fashion magazines. It is as widely accepted as lipstick and as popular as the permanent wave. Women freely discuss their use of haircoloring today.

It is a great change from the '20's and early '30's when the average beautician was usually the owner of a comb, a pair of shears, and an assortment of strange color concoctions—but most important, unbounded confidence and daring. This was rarely accompanied by very much technical training. It was a brave customer who stepped behind the curtains in the back booths in order to keep the "horrible secret" from everyone.

In 1932 Lawrence M. Gelb intro-

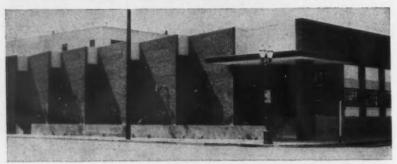
duced to American beauticians a new product that was destined to spark the growth of the entire industry. This new product was a new kind of haircoloring that, for the first time, combined haircoloring with a foamy shampoo base. It cleansed the hair as it colored and created new, natural looking tones never before achieved. This new haircoloring also contained mild conditioning oils that actually improved hair texture during the coloring process.

Mr. Gelb sensed that a new kind of psychological presentation was needed to present the new product. The word "dye" had become an ugly one and had too many unfortunate connotations. He consequently called his new product "Clairol Oil Shampoo Tint." With a few make-shift labels and a batch of tint mixed by hand in a small New York office, he offered his first demonstration to the staff of the Abraham & Straus Beauty Salon in Brooklyn. In a few minutes Mr. Gelb knew that his

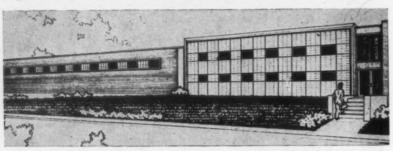




Mayor Thomas Quigley of Stamford cuts ribbon during dedication of the Clairol plant in 1952, as Lawrence M. Gelb and top company executives look on.



In June, 1957, the company opened this ultra-modern building in Hollywood, California.



Further expansion through the existing plant is shown in this architect's rendering. The building now under contruction will contain office, production and storage areas.

hunch was right. From that point on it was just a matter of time before beauticians and customers were talking about the new Clairol Oil Shampoo Tint.

An entirely new philosophy of haircoloring had to be presented to banish
the age-old barriers and mistaken beliefs which had retarded the industry.
He travelled throughout the country
in order to explain the new theory
about haircoloring as a basic cosmetic.
He gave demonstrations, lectured,
talked to beauty editors, offered free
instructions to beauticians, and addressed women's groups all over the
United States.

The Clairol Field Force was introduced and trained to bring haircoloring instruction and advice to beauticians throughout the country. The Clairol Technical Center became a haven for those forward-looking beauticians who recognized in advance the tremendous potential of haircoloring services.

Consumer education was carefully planned. The company started to pour a large percentage of its profits back into an advertising campaign aimed at convincing the American woman that haircoloring was a cosmetic to which she was entitled.

New Products

With the Oil Shampoo Tint as a nucleus, Mr. Gelb started to develop a complete line of haircoloring products and related items. From Progressive Clairol, the first shampoo haircoloring on the market, to such popular

products as Metalex, reconditioning oil; Removzit, a dye-remover; Sylk, a water softener; Clairolite, an oil bleach combined with certified color; and a whole series of "firsts" was introduced to an eagerly awaiting beauty industry.

Although great progress had been made, haircoloring was still a highly specialized service until the late 1940's. A haircoloring job took many hours, and time consumed increased the price, making the price prohibitive for many customers. Seeking to improve the haircoloring products, and to shorten the time for a haircoloring application, Clairol tackled the important problem for eight years. A staff of research chemists was instructed to search for a formula which would eliminate the long, tedious hours spent in pre-bleaching. The search was on for a prepara-tion which would bleach color and shampoo the hair in one simple swift operation.

New Discovery Speeds Hair Tinting and Shampooing 500%

In 1950, Clairol was finally satisfied that it had found the perfect formula! It was called "Miss Clairol Hair Color Bath" and was first presented on February 28th, 1950 at the International Beauty Show in New York City. The first reaction of the audience was of disbelief. They were skeptical because it just looked too good to be true! But when treatment after treatment was finished in from 5 to 20 minutes before them, they realized they were witnessing beauty industry history.

The orders weren't the most important result of this show. The ageold newspaper and magazine resistance to haircoloring finally broke. The country's top newspapers and magazines covered the story and ran feature stories about the new "revolutionary product." As soon as the beauticians started to work with the Hair Color Bath themselves, they discovered that 15 haircoloring jobs could be completed in the time it had originally taken to do three or four.

Free Schools Opened

To meet this overwhelming demand for education, Clairol began opening additional free schools throughout the country—Chicago, Los Angeles, Detroit, Philadelphia and Boston—where beauticians could quickly learn the skillful use of Miss Clairol.

Today the largest free haircoloring instruction center is The Clairol Institute of Haircoloring, located at 510 Sixth Avenue in New York. It is the most modern training center of its kind in the world. Staffed by skilled technicians and headed by Miss Vern, the Educational Director, the extraordin-

(Continued on page 36)



This group met to honor John H. Ehn, president of Vulcan Radiator Co., Hartford, on his 30th anniversary with the company.

Vulcan Radiator Anniversary Dinner

■ MORE than 200 guests, including employees, sales representatives, suppliers, national trade magazine editors, civic leaders and executives of national associations from all sections of the United States and from Canada attended the 30th Anniversary Dinner honoring John H. Ehn, president, of Vulcan Radiator Company at the Hotel Bond, Hartford, March 6.

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Milton L. Lundgren, vice president and general manager of Vulcan Radiator Company, and toastmaster for the evening, delivered a dramatic tribute to the role played by Mr. Ehn in the founding of the finned tube radiator industry in America. Mr. Lundgren said, "Leadership in industry requires more than design, engineering and production—it requires imagination, initiative, courage and perseverance. These are the ingredients which Mr. Ehn has contributed to Vulcan Radiator Company over a period of thirty years. On this 30th Anniversary, therefore, we trust that you will join with us in honoring the man who has provided such leadership for Vulcan and the industry and who, because of his early initiative, was able to translate an idea into what has since become a billion

Robert Ferry, general manager of the Institute of Boiler and Radiator Manufacturers offered greetings to the honored guest on behalf of his association and highlighted "Vulcan's Contribution to the Heating Industry."

dollar industry."

Franklin Greene, executive director of the Better Heating and Cooling Council of America, in referring to Vulcan, revealed "How Promotion Created a New Industry."

Joseph Cronin, business Agent, I.A.M., Nick Mahler of the Shenango Steel Company, Fred Yocum of Yocum & Goode Inc., New York, and Norman English, vice president of Vapor Heating Corporation, Montreal, Canada, offered greetings and paid tribute to Mr. Ehn.

In a special ceremony, Leslie M. Bingham, secretary of the Manufacturers Association of Connecticut, presented, on behalf of the Association, an inscribed scroll to John H. Ehn for his achievements and contribution to Connecticut and the heating industry of America.

An engraved silver gift was presented to Mr. Ehn on behalf of the I.A.M. union members of his company. Jack Ferreira made the presentation.

A dramatic highlight of the evening was the unveiling of a life-size oil portrait of John H. Ehn by his daughter, Mrs. Carl Bergstedt of Boston. It was evident to all that Mr. Ehn was visibly moved by the generous gift subscribed to by Vulcan's sales representatives, suppliers, and the management group of the company. The portrait was painted by the distinguished Australian-American artist Sylvia Davis Patricelli of West Hartford. The John H. Ehn portrait will hang in the Board



Life-size oil portrait of John H. Ehn, painted by Sylvia Davis Patricelli of West Hartford. The portrait was presented to Mr. Ehn at the anniversary dinner.

room of Vulcan's Administration building located on Capitol Avenue, Hartford.

Among the head table honor guests, besides the speakers mentioned, were: Mrs. John H. Ehn, Mr. and Mrs. Carl Bergstedt and daughter Joan, Mrs. Milton L. Lundgren, Mr. and Mrs. Gustaf Young, Mrs. Norman English, and Mrs. Joseph Cronin. Also seated at the head table was Rev. Guthrie Swartz, Associate Pastor of the Center



Milton L. Lundgren, vice president of Vulcan, is shown addressing the group. Mr. Ehn is shown on the left.

Congregational Church, Hartford, who delivered the invocation.

In a program brochure prepared for this special anniversary dinner, Mr. Lundgren traced the history of Vulcan Radiator Company and its contributions to the American economy. Mr. Lundgren wrote:

"During the 1800's, railroad cars were heated with conventional, old-fashioned, pot belly coal stoves, located in the vestibules at each end of the car. By 1910, however, rail transportation and travel comfort had progressed to the extent that railroad cars were heated with numerous rows of steam pipe running parallel throughout the length of each car. Installation costs were high, passengers were generally uncomfortable, due mostly to lack of uniform heat distribution and little or no protection from bare steam pipes.

"In 1926, however, a modest young businessman, John H. Ehn, was invited to invest in a newly formed company which had little or no assets other than several patents covering a new method for heat transfer. In 1928, Mr.

Ehn was elected to the Board of Directors of the infant organization, and

soon decided that if the company were to grow, its product would have to be merchandised. He therefore took it upon himself to explore the various avenues for promoting the sale of finned tube and eventually arrived in Chicago for a meeting with the president of a company known as Vapor Car Heating Corporation. As a result of Mr. Ehn's visit, this company began to conduct experiments with Vulcan finned tube, which soon revealed that one row of Vulcan's radiation would produce the same heat output as eight rows of old-fashioned bare steam pipe. Consequently, for the first time in transportation history, railroads discovered a new type of radiation that not only produced necessary heat requirements, but also provided the compact functional appearance and efficiency necessary to good interior appointments, as well as general travel comfort. While it has never been generally advertised as such, this particular moment in transportation history, nevertheless, produced the first finned tube baseboard radiation ever to be used for commercial or domestic heating purposes in the continental United States.

"Perhaps one of the greatest testimonials for Vulcan quality and craftsmanship is the fact that 95 per cent of all railroad cars in America have since been heated with Vulcan finned tube radiation.

"Since World War II, finned tube radiation has probably become the most popular of all heating types used for commercial, industrial and residential purposes and is today used extensively for refrigeration in packing plants, drying tobacco, textiles, lumber, dry-

(Continued on page 50)



Presentation of inscribed silver gift from Vuncan I.A.M. union members to Mr. Ehn (left). Jack Ferreira, center, made the presentation while Milton L. Lundgren looks on-Mrs. Ehn is shown on the extreme left.

Governor Ribicoff addresses guests at the University of Hartford Founders' Dinner held on March 3rd at the Hotel Statler-Hilton, Hartford. Behind the Governor appears a rendering of the new seal of the University of Hartford. The latin interpretation Ad Humanitatem, means "For Enlightenment."

University of Hartford Founders' Dinner



■ THE University of Hartford was exactly one year and ten days old when it celebrated its' first birthday at a Founders' Dinner on March 3rd at the Hotel Statler-Hilton, Hartford.

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More than 300 industrial, civic and educational leaders attended the full dress function which featured as guest speaker, Mr. Devereux Josephs, chairman of the President's committee on Education Beyond the High School, and chairman of the board of the New York Life Insurance Company.

Mr. Josephs saluted Connecticut's pioneering new university after citing the educational problems that face the entire nation in its present period of growth. "Many communities," said Mr. Josephs, "will be encouraged by your example and they too will focus on the solution of their problems." The principal speaker explained that these problems were based on three "irresistible forces," which confront our nation and which "must be recognized

in all our planning." He described the forces as "explosions" of population, of knowledge, and of plenty.

The population explosion, according to Mr. Josephs, will double the college population in fifteen years. Citing the steady growth since the turn of the century in the percentage of youngsters who enter college, Mr. Josephs cautioned that educational facilities must expand to meet this increase.

The "explosion of knowledge" was the term used by Mr. Josephs to describe the vast changes and rapid increases in our learning. These changes came about so swiftly, explained the speaker, that they affect adults and youth equally. Our children must learn more things about our world, and "parents must continue their study in order to understand their children."

"The explosion of knowledge," Mr. Josephs went on, "requires more education and training for our young people. The jobs which they will fill

in the future, the careers that they wish to follow, or the professions which they will enter need much more training and education than ever before."

"This," he added, "an urban university can do economically. It can also provide youngsters who must be on a job the chance to earn a degree or credits after working hours."

The explosion into plentitude has provided individuals in this country with a sudden "surplus of either time or goods or both, according to our choice," said Mr. Josephs. He called this a challenge to our nation's imagination, "for we have manufactured time to spare in our factories along with material goods, and we will not make a success of it without study and effort."

Mr. Josephs cited the university as a place through whose doors "the adult population can enter a richer life to fill its leisure hours."

(Continued on page 31)



Devereux C. Josephs, principal speaker at the Founders' Dinner, strikes a light note during his salute to the achievements of the University of Hartford.



Alfred C. Fuller, chairman of the board of Fuller Brush Company, Hartford, and chairman of the university founders, was one of the speakers.



Austin D. Barney, chairman of the board of the Hartford Electric Light Company, is chairman of the university's founders fund.

How to be Strong Enough

to Stand Alone

By BONNER FELLERS, Brigadier General, U. S. Army (Ret.)



Editor's Note-Although this article (titled by the editor) is in reality a series of excerpts from an address delivered by General Fellers over Station KVOD, Denver, January 12, 1958, the ideas set forth are taken largely from his book, "Wings for Peace." Because of the importance of his views concerning the security of America, this brief statement should be considered "must" reading by everyone interested in the future of the United States.

■ THE Eisenhower-Dulles report to the Nation on the recent NATO Conference was a restrained one. And in it the deadly threat to our survival was significantly omitted. My talk therefore will address itself to the dangers we face and to other critical issues not touched upon in the Eisenhower-Dulles

On October 26, as a preparatory step to the impending NATO Conference in Paris, President Eisenhower and Prime Minister Macmillan issued a joint statement. It begins:

The arrangements which the nations of the free world have made for collective defense and mutual help are based on the recognition that the concept of national self-sufficiency is now out of date."

This is a most astonishing admission. "National self-sufficiency is now out of date" means to the soldier that we can no longer stand alone. Could this be true? Most certainly the Soviet Union can stand alone. And if it-with its enslaved population—can stand alone, then why can't we-who are still free -stand alone also? Might we not be in deadly peril, if our defense—our very survival-depends upon others? Have we abandoned our traditional American self-reliance and placed our destiny in the collective defense con-

The theory of collective defense has scarcely ever been challenged. General Eisenhower-with the enormous military prestige of World War II-was selected to set up the NATO defenses. This fact alone seemed to most observers as a sound endorsement of the collective defense idea. And on the concept of collective defense the NATO structure has been built.

Collective Defense in NATO

Yet today, despite official praise of NATO-the so-called Shield of Western Europe-the actual defense picture is dark. After nearly 8 years of preparation, NATO surface forces defending the Rhineland number less than 15 divisions. NATO air power in Europe is decidedly inferior to the Red air force. Heralded as the postwar answer to the Soviet threat, European NATO is all but impotent. The present power ratio between the Soviet capability for attack and the European NATO capability for defense is such that it is obvious:

(a) That the Red army could overrun Europe.

(b) That the Red air force and probably the Red IRBM could destroy

World peace today rests not on European NATO but entirely on the American Strategic Air Force which is not even a part of NATO.

But our administration leaders are not disturbed. At the Paris NATO conference, a new collective program was introduced. We now propose to place our intermediate range ballistic missile in the hands of European NATO powers. We could not afford adequately to arm Europe with troops and bombers; how can we now afford so arm it with the IRBM? This weapon may prove just as costly as the bomber. Missiles are not retrievable.

Our NATO aid cannot well stop with the supply of nuclear weapons. It would be wicked to equip our friends with weapons which would draw enemy fire, unless we provide weapons for their defense. European NATO not only will have to be blanketed with offensive missiles but will also need supersonic fighter interceptors and anti-missile missiles for their own

The Eisenhower-Dulles report has conveniently failed to advise the Amer-

About The Author: General Fellers, whose military experience started in 1918 with his graduation from West Point, spent 14 of his 26 years of Army service in foreign fields, which included several tours of duty in the Philippines, one in Africa and one in Japan. He was the United States military observer with the British forces in Africa during the great desert campaign in 1940-42. He served on General MacArthur's staff, first as head of the Planning Section of G-3, General Headquarters and later as Chief of Civil Affairs for the Philippine Liberation and as Director of the Psychological Warfare campaign against the Japanese. In addition, he served as General MacArthur's Military Secretary and personal observer of frontline combat. He flew with General MacArthur from Manila to accept the Japanese surrender at Tokyo Bay and during the following year worked with him in the task of remaking war torn

Since General Fellers' retirement from the Army in 1946 he has served as Director of Public Relations for the Veterans of Foreign Wars and from 1947 to 1952 he headed the Veteran and National Defense Section of the Republican National Committee. In 1952 he resigned the latter post to write "Wings for Peace-A Primer For a New Defense," a book which is credited by the Air Force as having a profound effect on the thinking of the civilian members of the Department of National Defense. He is now National Director of "For America" organization with headquarters

in Washington, D.C.

ican taxpayer, that in addition to supplying nuclear weapons capable of striking the Soviets, he must also provide our allies with defensive weapons.

A Neutral NATO?

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Let's assume that we have provided the NATO powers with adequate offensive and defensive weapons. We have absolutely no assurance that the Soviets would attack Europe. The United States is the only Nation blocking the Communists' dream of world domination. It is most likely-and it is militarily sound—that if the Reds strike, they will bypass Europe and strike directly at the United States and our overseas strategic air bases encircling the Soviet Union. The Reds could strike most of these bases without directly attacking the European NATO powers. Except in Spain, which is not a part of NATO, there are no strategic air bases on the European Continent. Our bases in England cannot be used in war without the express consent of the British Prime Minister.

Unless attacked, our European Allies might be inclined not to strike the Soviet Union but rather to be neutral. If not attacked European NATO powers could hold their weapons in reserve, just in case the Red attack against them might come later. Most certainly, to remain neutral and hold their fire would be a human reaction.

Although this problem of neutrality plagued the Paris NATO conference, it is carefully omitted in the Eisenhower-Dulles report to the Nation. Actually, of our three principal allies —France, Britain, and Germany—only Britain has agreed (to date) to provide missile bases.

Last October Mr. Elmo C. Wilson, director of the New York Herald Tribune World Poll, 1957, took revealing samples of public opinion in 11 powers—all of which are friendly to the United States. Mr. Wilson's question was:

"In case war breaks out between the United States and the Soviet Union, do you think your country should do everything in its power not to get involved? Or, do you think it should take part on one side or the other?"

Two out of eleven countries polled, voted to take sides. In the Netherlands, 70 percent of those polled—and in Australia, 57 percent of those polled—voted to support the United States.

The remaining nine countries voted not to become involved. Vote percentages, by country, follow: Sweden, 94 percent; Austria, 89 percent; Norway, 74 percent; Belgium, 74 percent; Italy, 72 percent; France, 66 percent; Germany, 63 percent; Brazil, 61 percent; Britain, 54 percent.

This well-known Allied affinity for

neutrality makes one wonder if our leaders have given sufficient consideration to the fact that should World War III be forced upon us—there is every probability that we shall be fighting alone. It would be foolhardy to plan otherwise.

Should war come, our European allies will receive such Soviet punishment as their war effort invites. If they stay out of the way—they may survive. If they attack the Soviet Union, they will be destroyed. This fact forces one to discount the wartime value of the IRBM in the hands of NATO powers.

We must recognize that self-preservation is the first law of nature. Unlike any war in the past, the next war will be total. When an entire population faces extinction, nations, like individuals, put survival above all else—no matter how solemn the obligation. For such a stand for survival no people can be blamed.

If the Reds strike—only war can write the answer. Under such circumstances, do the American people dare subscribe to the Eisenhower-Macmillan agreement that national self-sufficiency is now out of date?

What could suit the Kremlin better than for the United States to rest its survival on collective allied help?

Collective Defense-in Korea

Our leaders ought to know about collective defense. It was tried in the recent Korean war and it utterly failed. In this war, 500,000 South Koreans fought heroically. Our contribution was 450,000 American troops; and we probably paid most of the bills. All other U. N. allies combined contributed a token force of 45,000—a mere 10 percent of the American effort and less than 5 percent of the total forces. Under this collective concept, for the first time in our history, we failed to win a war.

The truth is—when a nation becomes a member of the collective, it loses control of its own destiny. We could have won the war in Korea but our U. N. allies, with varied global interests, could not agree to such a victory. We shall yet pay for our Korean compromise.

Collective Security and Our Survival

The true defense position of the United States is controversial. Administration opponents claim that we are not as strong as the Soviet Union and that our very survival is desperately threatened. Statements from the White House—on the other hand—claim that today we are stronger than the Red forces.

There need be no controversy over our defense position. More than a year ago we had the sworn testimony of Generals LeMay and Twining that unless our air programs were stepped up enormously, some time between 1958 and 1960 the Red air force would have gained world air ascendency. And we are compelled to assume that the Red missile program is ahead of ours. Consequently, the necessity to strengthen our own defenses is desperate.

One wonders, after the billions American taxpayers have spent on defense, why we now face this emergency. There are several parts to the answer:

1. Our top leaders, notably recent Secretary of Defense Wilson, have long refused to believe that the Soviets were capable of creating the forces they now possess. Mr. Wilson's attitude was: "The Russians are not 8 feet tall." In a measure this stubborn stand set the tone of the President's and his administration's attitude.

2. The NATO surface defense of Europe, to which we have committed ourselves, has caused us to spend much too much on conventional surface warfare—for the Army, the Navy, and for ground support air units.

3. Our foreign-aid program has cost more than \$60 billion since World War II. This foreign aid has been extended to allies greatly to the detriment of our own defense.

The probability of a neutral European NATO is not all that could plague our collective defense. In addition, our overseas air bases, for the most part, may not be available to us. The sound military planner knows these facts:

1. Overseas bases are more susceptible to ground sabotage than those in the Western Hemisphere.

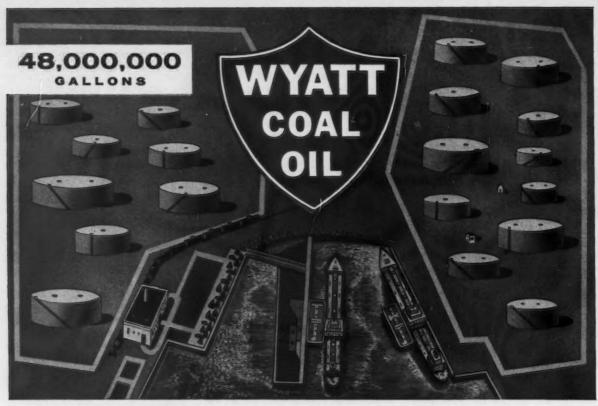
2. The host country—when war is imminent—may, in the hope of survival, seek neutrality and thus deny us the use of its bases.

Bases most vulnerable to Soviet air and missile attack are those nearest the Soviet Union.

These two probabilities, neutrality and unavailability of bases, may leave us little choice other than to depend upon North American air and missile bases. Thus, the internationalists, whose passion is worldwide collective defense, may in the end be forced to become the true isolationists.

From North American bases we can and we must defend the Western Hemisphere. And from the Western Hemisphere we can keep the peace of the world—provided we are stronger than the Soviet Union. And even this is not enough. Our own American forces must be enough stronger so that we can win—with what is left—after a Red sneak attack. If we make ourselves this strong, the chances of war are very remote indeed.

(Continued on page 42)



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News Forum

This department includes a digest of news and comment about Connecticut industry of interest to management and others desiring to follow industrial news and trends.



FREDERICK T. ALLEN

♦ FREDERICK T. ALLEN, vice president of manufacturing, Pitney-Bowes, Inc., Stamford, and Craig D. Munson, president, International Silver Company, Meriden, were elected directors of MAC at the quarterly meeting of the Board of Directors held at the New Haven Lawn Club, March 19.

only.

Mr. Allen was elected to replace Leo J. Pantas as director representing Fair-field County, to serve for the remainder of his term ending December 31, 1960,



CRAIG D. MUNSON

and Mr. Munson was elected to replace Carlyle F. Barnes as director-at-large to serve for the remainder of his term ending December 31, 1959.

Mr. Allen joined Pitney-Bowes, Inc. as a trainee in 1938 following his graduation from Brown University with a degree of Bachelor of Science in Engineering. Prior to his election as vice president for manufacturing in 1955 he served successively as supervisor of production control, assistant plant manager and production manager. His civic ac-

tivities have included service on several fund-raising campaigns in the Stamford-Greenwich area. Presently he is vice chairman of the Citizens Advisory Committee for the Post Secondary Technical Institute in Southeastern Connecticut, and a member of the finance committee of the Representative Town Meeting in Greenwich, where he resides. He also has been active in Greenwich civic affairs, particularly in scouting activities.

Mr. Munson joined the International Silver Company in 1922, two years after his graduation from Yale University with a B.A. Degree. He was made vice president and general sales manager in 1935 and elected president in

1955.

He is a director of International Silver Company, Gaylord Farm Sanatorium, Wallingford; Home Bank, Meriden; Sargent & Company, New Haven. He is also president of the Dime Savings Bank, a trustee of The Choate School, Wallingford, and a member of the advisory board of Liberty Mutual Insurance Company of Boston.

♦ THE OPENING of Flexible Tubing Corporation's new 16,300 squarefoot plant in Anaheim, California, has recently been announced by the Guil-

ford company.

In its new plant Flexible has begun a program of full scale manufacturing of a number of its major products. Automatic machinery, developed by Flexible's research and engineering laboratories in Guilford, specifically for automated production of the company's numerous flexible ductings, has already been installed in the new plant for manufacture of Flexflyte, Thermaflex, and Flex-Vent ductings, and for



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manufacture of various types of silicone and neoprene coated ductings in the special shapes required by the aircraft and missile industries.

♦ THE FIRST quantity production of Hamilton Standard Synchrophasers for turbine engine propellers is being undertaken by the division's Electronics Department, it has been announced.

The units will be installed on the Air Force's Lockhead C-130B "Hercules" turboprop transports. This aircraft is to be equipped with Hamilton Stand-

ard 54H60 propellers.

The Synchrophaser reduces noise and vibration within aircraft cabins by maintaining electronic control over the angular relationship between the aircraft's propeller blades. Working on the master-slave principle, it compares the blade angle of one propeller to that of the others and, within a fraction of a second, adjusts them so that they rotate at exactly the same speed and at precisely the same angular position.

♦ SILICONE RUBBER has been added to its line of elastomeric electrical insulation and sealing materials by Rogers Corporation, Rogers, producers of non-metallic specialty materials. With the addition of the new compound, Rogers can now offer materials for the aviation, missile and rockets, electrical, electronics, chemical and automotive industries and for special applications.

To rapidly gain specialized knowhow in this material, Rogers has concluded an agreement with Quantum, Inc., Wallingford, research and development firm with extensive experience

in the silicone rubbers.

♦ GEORGE E. CLARK, chairman of the board of directors of the George P. Clark Company, Windsor Locks,

died recently.

Upon his graduation from Harvard University in 1901, he became secretary and treasurer of the George P. Clark Company, which was founded by his father in 1870. He continued in this position until the death of his father in 1920, at which time he became president of the firm. He became chairman of the board last July.

Throughout his life he was interested in scientific developments and personally created many of the prod-

ucts of the company.

♦ A NEW PRODUCT, "Whitney-Tormag Magnetic Drive," is described in an interesting eight-page technical bulletin just published by the Whitney Chain Company of Hartford. The unit is described; as a safety go-between that is installed between motor and machine. It consists of just two rotors, one of them magnetic, and is designed to protect all kinds of equipment from the dangers of sudden, shock-loaded starts and stops as well as equipmentwrecking starts and overloads. Builtin operational characteristics provide cushioned starts with high efficiency at rated horsepower.

"Whitney-Tormag Drive is uniquely simple in design," says the Whitney bulletin, "consisting of two basic component parts . . . a magnetic rotor, which is a cylinder to which are attached Alnico V permanent magnets; and a bi-metallic rotor, which is a copper-faced mild steel cylinder perforated with steel ribbons."

Copies of the bulletin are available from the company.

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♦ THE ADDITION of a new model to its line of "Adaptool-Post" tooling fixtures has been annuounced by The American Cam Company, Inc., Hartford. Described as an effective means of reducing production costs, the Adaptool-Post is an advanced-design fixture that makes it possible to use smaller, less costly form tools in larger sizes of screw machines.

Available for both front and rear cross-slides, Adaptool-Posts are made from hardened steel alloy to insure maximum accurate life. The company states that these fixtures are now being produced by new machining methods that result in even greater accuracy. Construction features the use of a special adapter ring that eliminates the need for pin holes in the form tools and the use of conventional hook clamps.

♦ ANNOUNCEMENT has been made of the promotion of two senior executives of the Pratt & Whitney Aircraft division of United Aircraft Corporation.

United's directors have approved the election of Wright A. Parkins, well known for his contributions in the aviation powerplant field, to the post of vice president for engineering of United.

The directors have also approved the election of Leonard C. Mallet, present general manager of Pratt & Whitney Aircraft's Connecticut operations, to the post of vice president of the corporation as well.

Mr. Parkins joined Pratt & Whitney Aircraft in 1928 as an experimental engineer and held increasingly important engineering posts until he was named assistant chief engineer in 1938. He became engineering manager of Pratt & Whitney Aircraft in 1944.

Mr. Mallett joined United's Sikorsky division as an accountant, transferring in 1937 to the Pratt & Whitney Aircraft division as assistant treasurer and divisional accountant. After the outbreak of World War II, Mr. Mallett played a major role, under H. M. Horner, now United's chairman, in establishing and managing Pratt & Whitney Aircraft Corporation of Missouri, in Kansas City. He returned to East Hartford in the fall of 1945 as assistant general manager of Pratt & Whitney Aircraft.

♦ THE STANLEY WORKS, New Britain, has been selected to be a permanent exhibitor in the Dupont Plaza Center in Miami, Florida. The Center is described as the world's first tripleservice structure for housing principal factors of the building industry—architects, engineers, decorators, builders, manufacturers, contractors and other allied organizations.

The eleven-million-dollar project consists of the Architects International Bureau of Building Products, the No. 1 Miami Office Building and the Dupont Tarleton Hotel, and includes 100,000 square feet of exhibit space, 70,000 square feet of office space and a 301-room hotel. The purpose of the center is to coordinate architectural and



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In the exhibit area, Stanley's regular and newest lines of builders' hardware will be graphically displayed. Visitors will enter the center through doors operated automatically by Stanley Magic-Door equipment when they step on plastic carpets at the building's entrance.

♦ HAROLD E. FRANCIS, former assistant chief engineer of Wright Aeronautical division of Curtiss-Wright Corp., has been named senior staff engineer of Chandler-Evans division of Pratt & Whitney Co., it was announced recently by Alexander M. Wright, chief engineer of the well-known manufacturer of aircraft fuel control systems and accessories.

Mr. Francis joined Wright Aeronautical in 1939, and has been responsible for the development of controls and accessories on all Wright engines. He has been especially active in the development of aircraft engine components associated with high altitude supersonic flight and in advanced work on high-energy and "exotic" fuels.

♦ CONTACTS, INC., Wethersfield, has announced that it is now producing "standard" and "specials" of the button type electrical contacts in its new plant.

Produced on the most modern equipment, to exacting requirements, these button contacts, either flat or radius, are available in all contact materials: tungsten, molybdenum, silver and alloys, platinum, palladium and their alloys.

Using cold drawn steel and non ferrous metals as a base, Contacts, Incorporated has now begun production on screw, rivet and composite type contacts.

♦ WADE H. SHORTER, JR., general manager of Emhart Manufacturing Company's research, development and engineering operations, has been elected a vice president. John W. Murray, formerly assistant manager of the department, has been named manager.

The Central Research, Development and Engineering Department develops new products for Emhart's nine manufacturing plants in Connecticut, Hudson, New York, and abroad.

Prior to joining Emhart, Mr. Shorter was a design and development officer in the U. S. Army Ordnance Corps, He





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Seven top engineers of Sikorsky Aircraft Division of United Aircraft Corporation, Stratford, have a total aviation experience amounting to 227 years, 159 of which have been with the company. Igor I. Sikorsky (center) aeronautical pioneer who has retired as engineering manager but continues to serve the firm as a consultant, will celebrate his 50th anniversary in aviation next year. Standing behind Mr. Sikorsky at a recent staff meeting are, left to right: M. A. Wachs, chief of component development, 22 years; E. F. Katzenberger, chief of general design, 19 years; R. B. Lightfoot, chief engineer, 24 years; M. E. Gluhareff, engineering manager, 48 years; I. A. Sikorsky, chief aerodynamicist, 31 years; and J. P. W. Vest, chief of engineering operations, 34 years.

has also worked in a civilian capacity with the Army and Navy. Mr. Murray previously was chief project engineer for Anderson-Nichols & Co., Boston.

♦ THE APPOINTMENT of John L. Duggan, Jr., as treasurer of Underwood Corporation has been announced by the business machines company.

Mr. Duggan was assistant to the president of the Grace National Bank of New York before joining Underwood. A graduate of Swarthmore College of Pennsylvania, he attended Harvard Graduate School of Business and has a master's degree in business administration from the University of Pennsylvania.

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♦ A NEW automatic transmission lining for 1958 automobiles has been developed by Raybestos-Manhattan, Inc., from the thinnest woven asbestos lining ever produced. In addition to its thinness, the one-piece lining is quite flexible. The combination of strength and flexibility of the new product is said to make it easier to apply and bond to the metal band.

Designated as U.S. 4523, the transmission lining is produced in a range of thicknesses from .040 to .125 inches. It is made of resin-impregnated, nonmetallic, woven asbestos material.

♦ "A BLUEPRINT FOR PROFITS," a new folder now offered by P. & F. Corbin Division, American Hardware Corporation, New Britain, describes three Corbin merchandising ideas featuring a kit of six display panels of residential builders' hardware for attachment to a stock door in the dealer's inventory.

A compact island fixture displaying 80 per cent of the lumber dealers' sales requirements for residential hardware

is also described.

♦ LAURENCE A. DUNN, merchandise manager and assistant vice president of The United Illuminating Company, has been elected Chairman of the New England Region of the Public Utilities Advertising Association.

As merchandise manager for UI since 1945, Mr. Dunn has directed home appliance sales promotion, home service advertising, publicity and display activities in the company's Bridgeport and New Haven divisions.

He will, as PUAA regional chairman, head the planning for the 1959 regional session. In the past, he has served two terms as judge of PUAA's annual Better Copy Contest.

♦ A CONTRACT has been awarded to the University of Bridgeport by Sikorsky Aircraft Division of United Aircraft Corporation to carry out research and development tests in connection with helicopter design. The work will be conducted during the next several months by faculty members and advanced engineering students using University facilities.

Lee S. Johnson, general manager of Sikorsky Aircraft, said that in addition to providing valuable assistance to his company, the contract for this type of experimental work is intended to serve as a stimulus to the University's faculty members and advanced engineering students.

♦ JOSEPH N. DEMARTINO has been appointed personnel manager and Thomas R. Bailey manager of materials handling of Rockbestos Products Corporation, New Haven, manufacturers of insulated wires and cables, it was announced by Albert S. Redway, Rockbestos president.

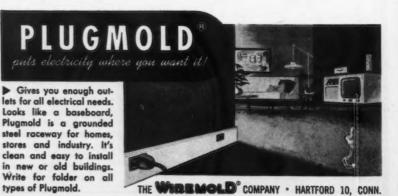
Mr. DeMartino moves up from assistant personnel manager to succeed Mr. Bailey, whose assignment as manager of material handling is a new po-

sition with the company.

♦ JARVIS CORPORATION of Middletown has announced a new type of Spiral Flute Stub Tap, designed to solve problems frequently encountered when using standard taps in screw machines.

The new Jarvis stub taps are said to be extremely strong because of their very short threaded section and short overall length. Shanks are ground to standard fractional dimensions and conform to National Screw Machine Products Association standards. This conformity permits the use of standardsize bushings and eliminates the need for special drills or reamers when making tap holders.

♦ A COMPLETE CATALOG on their new "Vertiform" 4-slide machine has just been released by the A. H. Nilson Machine Company of Shelton. The catalog contains a complete specifications table on the machine, as well as pointing out important advantages of vertical four-slide equipment.



Also covered are specific machine design features, standard equipment, and equipment options available from Nilson. Copies of the Vertiform catalog are available from the company.

♦ THE ELECTION of Theodore F. Talmage to the board of directors of the Perkin-Elmer Corporation, Norwalk, has been announced by Richard S. Perkin, president. Mr. Talmage is vice president for administration of the Norwalk firm.

He has been with Perkin-Elmer since 1941, when he joined the company's accounting department. Earlier this year he was elected to his present position, coordinating all activities serving the company's operating divisions and international affiliates.

♦ A REVISED CATALOG with several innovations has just been published by Koiled Kords, Inc., New Haven, manufacturers of retractile cords for communications, home and industry.

The revisions in the catalog involve a simplification of the tabular matter giving types, sizes and colors available. The form in which this material is presented is designed to simplify the selection and ordering of the retractile cords best suited to the needs of the customer.

Included in the 16-page booklet are many illustrations showing a variety of applications for retractible cords and in the catalog section are listed all the many sizes and types of power cords and other standard items. Copies are available from the company.

♦ WILLIAM J. COOPER was elected president of The United Illuminating Company recently to succeed William C. Bell, who was elected chairman of the board of directors.

Mr. Cooper has held various positions with the company since 1942. During the past two years he has served as executive vice president of the company. Mr. Cooper received a bachelor of science degree in engineering at Georgia Institute of Technology and a master of science degree in electrical engineering at Yale University. Prior to joining UI as assistant to the treasurer in 1942 he was associated with Georgia Power Company, Central Hudson Gas & Electric Corporation and Line Material Company.

Mr. Bell, the new chairman of the board, joined UI in March 1942 and since that time has served as president. He succeeds the late James W. Hook who had been board chairman from 1942 until his death last October.

A native of Texas, Mr. Bell is an engineering graduate of the University



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of California. He spent 15 years with the Virginia Railway and Power Company and has been affiliated with the Narragansett Electric Company in Rhode Island and the New England Power Association.

• THE 50TH ANNIVERSARY of The Walton Company of West Hartford, manufacturers of small tools, was celebrated recently. Incorporated in 1908 by the late Ward W. Jacobs and other members of the Jacobs family, the company's tap extractors and other specialized tools are now used in most metalworking plants throughout the United States and in many foreign countries.

All company employees, and their wives or husbands, celebrated the 50th anniversary at a dinner party at Yankee Silversmith Inn in Wallingford. Guests included Ward S. Jacobs and his sister Miss Editha L. Jacobs, both of whom were original incorporators of the company.

The company started its manufacturing operations in 1908 in the Seidler and May Furniture building at 308 Pearl Street, Hartford, now the location of the Statler-Hilton Hotel. It moved in 1934 to the Hartford Wire Works building on Allyn Street, and in 1948 moved into its own plant at 600 New Park Avenue, West Hartford.

Since 1936 the officers of the Walton Company have been Kenneth W. Weeks, president and treasurer; Robert A. Trask, vice president, and Helen S. Weeks, secretary.

♦ THE DEVELOPMENT and marketing of the new "Setmaster" precision boring tool bit setter has been announced by Fred Wood Industries of Fairfield, in conjunction with Aircraft

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also in stock: THE COMPLETE LODDING LINEOF STANDARDIZED IIG and FIXTURE COMPONENTS



Kaman Aircraft's new engineering and administration building to be erected on Blue Hills Avenue in Bloomfield. The new building will contain 34,000 square feet of space and will be air conditioned. The upper level will contain executive offices and conference room.

Engineering and Manufacturing, Inc., Bridgeport. The new Setmaster is said to enable the user to duplicate the cut or reset any new boring tool bit to within .0001" of the original cut in a fraction of the time needed for resetting with conventional measuring devices.

According to company officials new or sharpened boring tool bits, when reset with Setmaster, will give the exact same cut as given by the original tools when they were first installed. Other advantages are said to be: the ruling out of time-consuming adjusting; the elimination of strains and bending motions in boring bar; and total elimination of scrap by removing all guesswork and cut-and-try methods.

Literature is available from Aircraft Engineering and Manufacturing, Inc., 2A16 Norman St., Bridgeport.



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ATOM-LUBE MIST COOLING SYSTEMS

The New REZISTOR HIGH SPEED STEEL BAND TOOLS

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FOR INFORMATION

Write to Miss Frances Hermann, 19 Edgehill Road, Brookline 46, Mass. or phone Miss Hermann at UNiversity 4-5770, ext. 807.

♦ A NEW THERMOSTAT for electric ranges which will operate the broil element of an oven at one-quarter wattage while baking—to provide top heat and a better distribution of heat—has been developed by The Hart Manufacturing Company, Hartford.

Basically a three-position unit (Off, Bake, Broil), the new thermostat cycles both the bake and the broil elements in Bake position. In Broil position, the bake element is not energized and the broil element operates at full wattage.

For the convenience of range manufacturers, mounting arrangement of the new thermostats has been made completely interchangeable. Solid shaft spindles can be furnished for any standard single or double-D knob or handle. A retaining spring on the spindle gives positive holding action.

♦ CHRIS F. VANRAAPHORST, formerly with the Waterbury Manufacturing division of Chase Brass & Copper Co., has joined the Bridgeport Brass Company as manager of its Norwalk plant, it has been announced by Herman W. Steinkraus, president and board chairman.

A native of Amsterdam, Holland, Mr. VanRaaphorst came to this country when a child. He attended Franklin Technical Institute, Boston, and Wilbur Wright Technical School in Detroit, Michigan.

The Norwalk plant, formerly the National Cored Forgings Company was acquired by Bridgeport Brass in 1955 and specializes in forging nonferrous metals into intricate parts.

♦ THE LYCOMING DIVISION of the Avco Manufacturing Corporation has received a citation from the Indemnity Insurance Company of North America in recognition of an outstanding safety record of 12 million hours of work with no time lost through accidents.

During brief ceremonies Herbert P. Stellwagen, executive vice president of the insurance firm, presented a plaque to Edward Woodyard, assistant to the president of Lycoming.

C. G. SONTHEIMER, executive vice president of the CGS Laboratories of Stamford has announced the move of the company's main offices to Ridgefield.

The company, among its other projects, manufactures tracking devices for missiles. Two new VHF Panoramic Receivers designed to provide coverage from 35 to 150 mc have been added to the line of all-electronic TRAK Panoramic Receivers produced by CGS and displayed recently at the company's booths at the convention of the Institute of Radio Engineers in New York.

♦ A PROGRAM to assist and protect the job opportunities of Connecticut men and women in industries threatened by importation of products from low-wage, low-cost countries, has been announced by the newly-organized Connecticut Trade and Employment Council.

Judge Frederick W. Beach, Bristol attorney, is the organization's president and Walter P. Jennings, former Hartford and Washington newsman, will serve as its secretary. Incorporators of the Council include Craig D. Munson, president, The International Silver Company, Meriden; Hemenway Merriam, counsel, Scovill Manufacturing Company, Waterbury; Irving K. Fearn, vice president, the American Thermos Products Company, Norwich; Gerald J. Griffin, vice president, The Wallingford Steel Company, Wallingford; George A. Baker, Jr., vice president, The American Screw Co., Willimantic; Joseph B. Burns, counsel, Fuller Brush Company, Hartford.

"Connecticut manufacturers have conferred on ways and means to combat policies of state and national gov-



Jay Boots Is ...

a mighty busy man. As President of Boots Aircraft Nut Corporation, he sometimes finds it difficult to fit advertising business into a tight schedule. That's why Jay appreciates having an agency right close by . . . literally at his elbow. Frequent short visits—often at the close of a busy day—is the way Woodward solved Jay's problem.

Jay, a man who knows his nuts and bolts from A to Z, says, "Woodward assigned a writer and an artist to our account who really understand the tough technical problems connected with our product. And they come up with clean, goodlooking ads that get results!"

By the way, Jay Boots will be glad to fill you in on the full details of his relationship with us.

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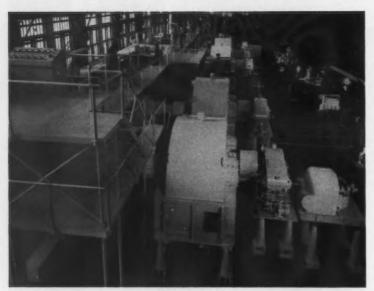
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*This lovely new pattern will be on display in fine jewelry and department stores in April

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Good lighting can speed production and reduce rejects. It is essential for precision work. Good lighting aids the skill and productivity of your working force. It also promotes employee safety and morale; reduces man hour losses.

Every industrial plant has its own lighting problems.

For instance, the erecting shop of Farrel-Birmingham Company, Inc., Ansonia, is large, with high ceilings. Here mercury lights were replaced with new 500-watt, reflector-type High Bay Lamps specially designed to provide and effectively maintain adequate light for precision assembly of large ma-

chinery such as sugar mills, which may be as high as 20 feet. "Built-in reflectors which keep lamps bright throughout their life are changed with each lamp replacement. The new lighting is economical, too. It eliminates the cleaning of reflectors and provides greater lighting efficiency," says E. P. Lockwood, Manager of Maintenance.

Think how good lighting can improve *your* production.

Your Connecticut Electric Utility Companies are ready to assist you and your engineers to work out the lighting best suited to your operation.

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MADISON, CONN. Circle 5-2645 ernment that have brought about joblessness, curtailed working hours, and threatened discontinuance of operation of some of Connecticut's oldest and most basic industries," Judge Beach stated. "It will be the primary task of the Council," he said, "to acquaint the citizens with the political and economic forces which tend to sabotage their livelihoods and to rally them in support of this fight for industrial survival in Connecticut and New England."

♦ P. F. BROPHY, president of Cramer Controls Corp., Centerbrook, has announced that production of motors at the Ballouville plants of the company has been transferred to the company's main plant in Centerbrook.

The decision, which Mr. Brophy said "is the result of a change in the complexion of the market," affects over 100 employees at the Ballouville plant. The firm manufactures a line of electric motors and synchronous timing devices.

♦ MANNING, MAXWELL & MOORE, INC. has completed the shift of its Industrial Controls Division from Stratford to its Danbury plant.

The plant formerly housed the MMM Aircraft Products Division, which was sold in January to Consolidated Controls, Inc., Bethel. The division's electronic process control systems are used for measurement, transmission and control by chemical, petrochemical, petroleum, power and pulp and paper industries. Marketed under the name "American-Microsen," the division's products are also sold in Canada, Latin America, Europe and many other parts of the free world.

♦ CONSTRUCTION is now underway on a new half-million-dollar engineering and administration building at Kaman Aircraft Corporation, Bloomfield. The new building, which will contain 34,000 square feet of floor area, will be situated on a 16-acre tract of land located on Blue Hills Avenue in Bloomfield.

The engineering facilities planned for the new building will provide needed space to house Kaman's expanding research and development activities and will free space in the main plant for the company's growing production operations.

♦ PAUL M. FLEMING has been elected president of the Bigelow Company, New Haven, succeeding Starr H. Barnum, who has been elected chairman of the board and treasurer. His son, Starr H. Barnum III, was elected vice president and secretary.

Mr. Fleming joined the Bigelow Company in 1919 in the sales department and during the past few years For all-'round deodorizing



Deodoroma ROUNDS cost in use averages only a fraction of one cent a day. Rounds are formed under. 70,000 pounds pressure: are dense and durable. Fragrance is locked in: lasts until the last particle has vaporized—there's no harsh "moth cake odor." Packed eight to the telescoping box—each Round sealed airtight—easy-to-shape Holzit wise holder in every box. For literature write to The C. B. Dolge Company, Westport, Conn.

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A McLean Industries Company
GENERAL OFFICES: Mobile, Alabama
BRANCH OFFICES: New York, Wilmington, Del., Miami, Houston, New Orleans,
Tampa, and other principal U. S. cities

has been executive vice president of the company.

Mr. Barnum joined the company in 1908. He started in the shop, learning the trade of boiler making, and worked up through various departments, concentrating for a number of years on sales. He succeeded his father, George Starr Barnum, as president in 1939.

Mr. Starr H. Barnum III has been secretary of the company. He has been associated with the firm since 1941. Mr. Gustave Welter is vice president and George B. Sherman, assistant treasurer.

This year the Bigelow Company is celebrating its 125th anniversary. It is said to be the oldest and largest manufacturer of steam generators in New England.

♦ THE INTRODUCTION of the new Williams "Roto Recipro" toolmaking machine has been announced by The Connecticut Tool and Engineering Company, Fairfield.

The machine is said to afford a unique method whereby rotary and reciprocating motions are available simultaneously. It is claimed that through this method the machining of all types of tool steels, carbide form cutting tools, contoured tungsten carbides and hardened steels are obtained more efficiently and economically. Inexpensive diamond tools, carbide files, grinding points and carbide burrs are utilized.

Conventional tension and compression filing as well as sawing and honing is obtainable through the use of an interchangeable file bracket. Features of the machine include a reciprocating motion infinitely adjustable with a range of 85 to 500 strokes per minute, combined with rotary speeds rheostatically controlled up to 45,000 R.P.M.

♦ PLANS to start immediate construction of a Technical Center to house all of its research and engineering facilities have been announced by The Ensign-Bickford Company of Simsbury.

Executive Vice President John E. Ellsworth commenting on the plan said, "this decision symbolizes our belief in the future of our company and our confidence in the further growth and development of the American economy. It marks the culmination of some long-range thinking about our company's future and, more specifically, implements the decisions reached by a series of long-range planning conferences held by the company's executive group last year."

Consolidation of activities in the new center will bring together in one location several work centers now separately housed; provide an improved modern environment for performing technical work; provide easier access by visitors to the executives involved and create a stimulating condition for the development and exchange of new ideas among the company's technical personnel through the use of central library and other common facilities.

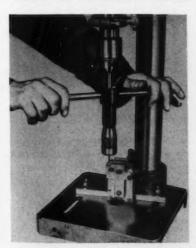
♦ FRANK H. KENNEDY has been elected treasurer of The Gray Manufacturing Company, Hartford. Mr. Kennedy has served the company since 1951 as chief cost accountant, assistant controller and controller. He was formerly associated with The Silex Company in Hartford.

♦ TWO ASSORTMENTS of widely used sizes of cup point socket set screws and keys have been announced by The Bristol Company, Waterbury. The assortments are contained in an enameled steel case. The kits, designed for general plant maintenance, tool and die shops, and appliance servicing, contain 50 each of a selection of sizes from No. 4 up to No. 10 and ¼ inch diameter.

One kit, No. 210, contains hex socket screws, and the other, No. 211, contains multiple-spline socket screws. All screws are standard Bristol heattreated alloy steel products, Class 3A fit. An illustrated bulletin is available from the company.

♦ DUNHAM-BUSH, INC., West Hartford, manufacturer of air conditioning, refrigeration and heating products, has announced the availability of a new merchandiser for heating products.

Designed for use in wholesalers' showrooms and contractors' places of business the merchandiser included



Tapping "on location" with Grimes hand tapper. Operator is tapping retainer screw hole for drill bushing on special pneumatic work holding device for small gun parts. Adjustable chuck has capacity up to ½ in.

"cut-aways" of Dunham-Bush hot water and steam specialty products. It will be distributed on a loan basis.

♦ THE GRIMES ENGINEERING CORP., Cheshire, designers of special drilling machines and accessories, has announced a new, simplified and inexpensive hand tapping device for producing precision threads in a size range of from No. 0 to ½".

Designed as a machine tool accessory to be used with drill presses, lathes, jig borers and vertical millers, the Grimes Tapper is said to eliminate the need for individual hand tapping machines and devices. It also enables

the work to be tapped "on location" where the holes are drilled, insures accurate tap alignment with drilled hole and saves considerable time usually spent in moving work to a tapping machine and aligning it for tapping.

Basically, the device consists of an adjustable, floating tap holder with a ½" diameter free turning spindle shaft. In use, the spindle is positioned in the chuck or collet of the supporting machine tool, which aligns the tap with the hole to be threaded. The floating principle of the Tapper prevents any of its weight from being applied to the tap, thus assuring perfect threads every time. It also reduces to a mini-





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Tel. JA 2-8254 Tel. JA 2-8255 106 ANN STREET • HARTFORD, CONN. mum the danger of tap breakage, even with the smallest taps.

♦ THE PRODUCTO MACHINE COMPANY, Bridgeport, in conjuction with Southern Tool Distributing Company, of Atlanta, Georgia, will operate a die set assembly warehouse in the latter city beginning this month, to provide a faster service for manufacturers in the southeastern states. The announcement was made jointly by Philip R. Marsilius, executive vice president of Producto, and Robert Hill, president of Southern Tool.

The warehouse, which will also service Producto distributors in North Carolina, South Carolina, Tennessee, Alabama, Mississippi and Florida, will carry a complete line of Producto precision die sets, die makers' accessories and tool room equipment.

♦ A PROTOTYPE of a hydromechanical infinitely variable speed drive, having constant horsepower range of 13.5 to 1, has been designed, built and tested at the Bullard Company, Bridgeport. While not yet ready for commercial application, the refining of the control system and the design of the commercial "package" is in process.

Coupled to a vertical turret lathe, the 40 hp prototype is said to provide a smooth transition of output speeds from 0 to 1800 rpm. In one test, the face of a large diameter steel disc-like part was machined from perimeter to center with a constant feet per minute cutting speed and at a constant horse-

power.

The principle of operation of the new drive includes the combining of planetary differentials with two small size positive displacement hydraulic units. The heart of the drive comprises two planetary differentials that are so inter-connected that during the operation of one, the other is pre-conditioned to take over where the first left off, and vice-versa. Hydraulically-operated clutches are employed in the drive and the design of the gearing within the drive is such that infinitely variable speeds of the output shaft are produced with no noticeable output speed drop or even a distinct plateau throughout the entire range of speed.

♦ THE PRODUCTION of a new line of 30 ampere starters and contactors specifically designed and engineered for controlling commercial air conditioning and refrigeration compressor motors has been announced by the Arrow-Hart & Hegeman Electric Company of Hartford.

Availability of these new units now makes it possible for Arrow-Hart to offer a complete line of motor controls for every requirement in the air conditioning and refrigeration indus-

The new Arrow-Hart 30 ampere starters and contactors are supplied in two, three and four pole models. Either quick trip or standard heaters may be furnished to provide the positive protection that compressor motors demand. Extra poles may be used for fan and damper motors without the need for extra, smaller relays.

♦ GABB SPECIAL PRODUCTS, INC., Windsor Locks, has announced the recent establishment of a new division, Tec-Plate, Inc.

The new division is engaged in precision hard chrome plating of all types of metal, utilizing the new Morey Process. This process is a new method of achieving ultimate hardness of a wear resistant surface on parts requiring extreme accuracy. Positive control of deposit enables tolerances of .0001 to be held consistently without danger of end build-up or taper.

Tec-Plate, Inc., specializes in hard chrome plating of precision gauges, fixtures, dies, cutting tools as well as

production parts.

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♦ A NEW 20-page catalog describing the full line of Red-E centers and grinder dogs has been prepared by Ready Tool Company, Stratford.

Issued in connection with the company's 50th anniversary, the catalog includes many centers recently added to its line. These include anti-friction Superaccurate and anti-friction bull and pipe grinder centers, high-speed steel and carbide-tipped centers, as well as turret lathe, spinning, roll turning, grinding and railroad axle and wheel-turning machine centers.

A feature of the catalog is a group of special centers designed by Ready Tool Company for specific applications, and available for specialized engineering jobs. These include builtin spindle, self-floating, collar-support, collet, eccentric and chuck types.

University of Hartford Founders Dinner

(Continued from page 11)

The country's attention to educational needs and problems, he declared, "has been stimulated by the realization that we are being challenged by the Communists in the very area in which we thought we were paramount."

He spoke highly of the development of the urban university as a democratic society's way of showing its responsibility to its educational needs. Mr. Josephs urged sizeable voluntary contributions to support education, saying "we can buy our education in the bargain basement along with seconds and the articles which have gone out of style, or we can make purchases of quality and fresh design."

Mr. Josephs was preceded by Governor Ribicoff, who brought greetings from the state to the new university which he described as an "Operation Bootstrap, starting from scratch." He urged that educational opportunities be provided for the widest possible segment of our population, adding that "the University of Hartford will add a decided plus" in meeting this need.

Another principal speaker was Dr. Wilma Kerby-Miller, dean of Radcliffe, who stated that "the Founders of the University of Hartford can take pride in having acted upon a splendid, far-seeing idea while many are still in the talking stage about the crisis in

higher education.'

Alfred C. Fuller, chairman of the board of the Fuller Brush Company spoke briefly as chairman of the University Founders. Mr. Fuller read the text of a telegram sent by President Eisenhower which said "in this period of increasing need for the expansion of our nation's institutions of higher learning, the responsibility of support must be widely shared. Since the whole community reaps the benefits of education, it is fitting that each citizen take an active part in our school building program. Congratulations to the people of Hartford, and best wishes for the success of their new university.

Mr. Fuller further remarked that "as president and now chairman of an international company, I have come to have a high respect for community colleges which enable a man to grow in his job. Many, who might otherwise become stuck at a rather humble job, have grown in usefulness to the company and to themselves. As a direct result of their studies they have taken on added responsibility in our company and I know that this holds true in almost every corporate endeavor in this community."

Mr. John G. Lee, director of research of the United Aircraft Corporation and chairman of the board of regents of the University of Hartford, spoke of the university's development program, citing the first year of the university's growth as one that took place "with almost no dependence upon the community for operating support." He said that community assistance would now be necessary to construct the buildings for the university.

High point of the evening was the introduction of Mr. Austin D. Barney, chairman of the board of the Hartford

(Continued on page 50)





For special tooling, your best source is a contract tool and die specialist

In every major production center there are contract tool manufacturers who are specialists in any type of tooling you can name—dies, jigs, fixtures, molds, gages, special machinery—and precision machining. Their very existence depends on their ability to do this work more economically than production plants.

Tooling grows more complex daily. Toolrooms planned originally for only maintenance and repair work cannot possibly match the contract plants in versatility, skilled manpower, delivery and price. Here's why:

 The contract tool manufacturer's experience with many different operations and materials enables him to solve tooling problems with a minimum of delay. Since his work usually involves a variety of products for several industries, he can pick up an idea from one job and apply it to another. Unhampered by the "sameness" encountered by tooling personnel in production plants, he can effect substantial savings.

 The contract tool manufacturers offer you a half-billion dollars' worth of equipment and facilities, and some of the world's finest skilled personnel.

When you take advantage of this high concentration of capital and skills, you get faster delivery and lower prices. You avoid a huge capital investment in equipment and the problem of keeping a large tool force busy the year 'round.

Whatever your special tooling requirements, it will pay you to consult an NTDMA plant.



Central Connecticut TOOL & DIE ASSOCIATION

LOCAL CHAPTER OF NTDMA

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NATIONAL TOOL & DIE MANUFACTURERS ASSOCIATION . . . an organization of companies that design and manufacture special tools, dies, jigs, fixtures, gages, molds and special machinery, and do precision machining; located throughout the United States and Canada.

Central Connecticut TOOL & DIE ASSOCIATION

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TALCOTT SCREW MACHINE PRODUCTS, INC. 85 Tremont St., Meriden, Conn., BE 7-5511 William Duda • Henry Cylkowski

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P. O. Box 550, Manchester, Conn., MI 9-5258
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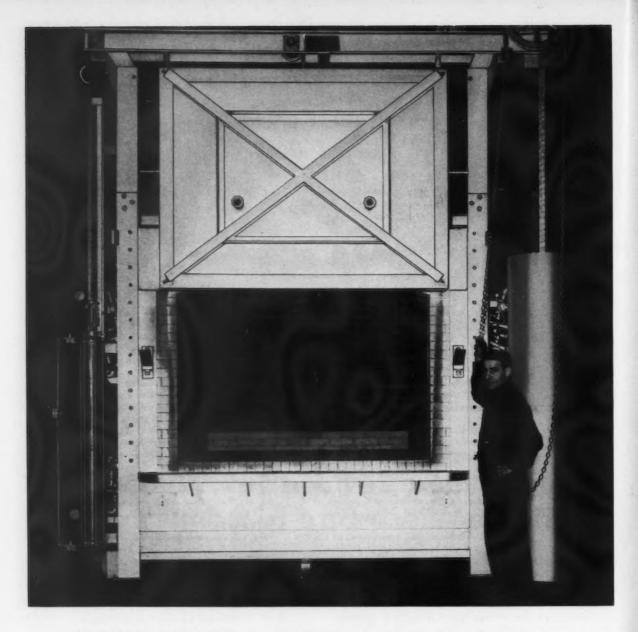
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IT PAYS TO GO OUTSIDE FOR SPECIAL TOOLING

CENTRAL CONNECTICUT TOOL & DIE ASSOCIATION, local chapter of NTDMA... an organization of companies that design and manufacture special tools, dies, jigs, fixtures, gages, molds and special machinery, and do precision machining; located throughout central Connecticut and western Massachusetts.



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step forward
in New Haven!

- The Surface Combustion Oven Furnace shown here is one of the largest heat treating furnaces in Connecticut.
- Installed at the New Haven Heat Treating Company, this giant has inside dimensions of 4 feet high, 6 feet wide and $6\frac{1}{2}$ feet long.
- Its temperature range of 200-2350°F makes it of timely value in the development of the guided missile program.
- Gas-fired, it is dependable, flexible and highly controllable. Gas-fired, it is fast and clean.
- These unique advantages of Gas are at your service for an ever-increasing important list of industrial applications. Call your Gas Company's industrial specialist. He will be glad to discuss with you the economies and results you get with Gas and modern Gas-fired equipment.

How Would You Decide?

By Fredrick H. Waterhouse Counsel

♦ WHEN a man in one labor grade is assigned to perform any of the work of a man in a higher labor grade is he entitled to the rate of pay for the higher labor grade?

Here's what happened.

The employee in question was employed in a certain labor grade with a definite rate of pay. During the time another employee in the same department was on vacation, the grievant was assigned to fill in for him. The labor grade of the vacationing employee was somewhat higher than the grievant's but no adjustment was made in the grievant's pay for the week he was filling in on the other job. The labor agreement provided that when employees were temporarily transferred to another job they would be paid their own rate or the rate of the job to which they were assigned, whichever was greater. The union contended that the grievant was transferred to the higher paying job and under a previous arbitration another arbitrator had held that even though the transferred employee does not perform or even cannot perform all the duties of the job to which he is transferred he nevertheless is entitled to the pay of the job since he was actually transferred to it. The company contended that the employee had not been transferred but had merely been assigned to help the person in charge of certain work and had actually done nothing more than work of the same general character and in the same labor grade, of his regular job. Such fill-ins were fairly common in that department and no objection had ever been made before.

Does the mere fact of replacement of a man in a higher labor grade entitle the employee to a higher rate of pay?

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The arbitrator felt there was sufficiently distinguishing characteristics between the former case and the present case to warrant his concluding he was not bound by the previous decision. He then decided that the grievant was not transferred within the meaning of the contract but was rather assigned to perform only a limited part of those duties of the vacationing employee. Since the duties he was actually assigned to perform, and did perform,

all came within duties of a job in his own labor grade, he was not entitled to be paid according to the pay of the higher labor grade, of which he performed none of the duties.

Does the company waive the time limitation on the filing of grievances by accepting and discussing the grievance?

Here's what happened.

The contract had a definite clause to the effect that no grievance would be dealt with under the grievance procedure unless it was presented within two weeks after its occurrence. The company established new job classifications in a certain department and duly notified the union. The grievant worked in that department and accordingly was put in a certain class. A little over two months later he filed a grievance claiming he should have been put

in a higher class. The company accepted the grievance, discussed it with the union representatives and issued a formal reply. The grievance then progressed through the various steps of the grievance procedure until it finally came to arbitration. The company then claimed for the first time that since the grievance had not been filed within two weeks of the occurrence complained of, it was not arbitrable. The union claimed that it was a continuing violation of the contract and consequently an objection or grievance could be raised at any time as long as the violation continued. Furthermore, said the union, by accepting and discussing the grievance in the earlier steps the company must be considered to have waived the requirement that the grievance be filed within two weeks of the occurrence.

Was it a continuing violation which could be raised at any time or had the company waived the time limit for raising the grievance?

The arbitration board did not pass upon the claim of a continuing violation. It held that the time limitation is directed at barring from the grievance procedure grievances not filed within two weeks. However, once in the grievance procedure by acceptance



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and discussion by the company, the question of timely filing has been waived and may not thereafter be raised. The grievance must be considered to have been accepted by the parties and properly in the grievance procedure and subject to arbitration.

Must the company classify an employee in the job classification for which he has the ability or in the classification of the job on which he is actually employed?

Here's what happened.

In establishing job classifications and classifying employees in a certain department the company classified the grievant in grade 3. He claimed he was qualified to do the work called for in grade 2 and actually had done some of that work on a few occasions. Therefore, he claimed, he should be placed in that grade regardless of whether he was doing grade 2 work or not. The company pointed out that the nature of its product was such that to qualify for grade 2 it was necessary to pass certain tests which the grievant had never taken, and the nature of the work he was actually doing did not necessitate his taking the tests or qualifying for grade 2. The union then said the employee was still qualified and would pass the tests if the company would only let him take them but he never had the opportunity to qualify in that manner.

Must the company give him the test and if he passes, classify him in grade 2?

The arbitration board pointed out that many employees have all the ability necessary to perform more difficult work than they are actually doing but unless there is a job opening in the higher classification, such an employee does not have the right to be upgraded into that classification. The company must have the right to determine how many employees it needs in the various classifications and grades and is not required to employ more persons in a certain grade than are needed even though it has among its employees some who can qualify if a job opening should occur.

Growing With The Beauty Industry

(Continued from page 8)

ary training program offers free instruction, equipment and books.

During the Summer of 1957, more than three hundred and fifty beauticians from all over the country sacrificed their vacations to come to the New York haircoloring center for an intensive one week haircoloring course at the renowned school. There they frequently join beauticians from other parts of the world.

The Institute is a center for educational activity in hairstyling shows, beauty forums, discussion periods and seminars which are held regularly at The Clairol Institute in order to bring about the steady advancement of professional standards.

The Clairol Institute is made available to hairdressers' associations whenever possible for special meetings.

The six other Clairol haircoloring centers offer similar training and facilities. In addition, Clairol representatives who received intensive training at The Institute in New York are stationed in cities all over the country to answer technical questions in person and by phone. An extensive mail information service supplies the answers to special questions in detail.

There was an urgent need for an authentic, well-documented book covering haircoloring techniques. In 1953 after two years of preparation, Clairol published "How To Do Better Haircoloring," the first complete textbook on hair tinting and bleaching. Nearly a half-million copies have been distributed free to beauticians all over the world. A new totally revised edition is coming out this month to bring the most up-to-date information to its readers.

Research Laboratory Provides Success Formula

In Stamford, Conn. continuing research is conducted in the development of new and improved hair care products. What started as a small laboratory with a few chemists has expanded to a large staff of chemists and auxiliary personnel occupying an entire building of 70,000 sq. feet, excluding a new addition. Every product undergoes close supervision and is tested to maintain its quality. The scientists have at their disposal complete range of modern testing and research instruments. A large research library has been compiled with several thousand reference volumes and up-to-date files on all developments relating to hair, skin and general beauty aids.

With the growth of Clairol's laboratory, research and production facilities many new products were developed to help make the beautician's work more beautiful and foolproof. The next new one was Lady Clairol Whipped Creme Hair Lightener, which revolutionized bleaching methods. Then, the introduction of Miss Clairol in Creme Formula made the application of hair-coloring even easier and quicker.

An entirely new field of haircoloring was opened in 1956 when Clairol presented "Come Alive Gray," a temporary rinse to help make gray-haired women beautifully gray without blue or purple tones. Clairol made more news in 1957 when it presented Vitapointe, the world-famous hairdressing and conditioner, to American women for the first time.

Growth In 25 Years

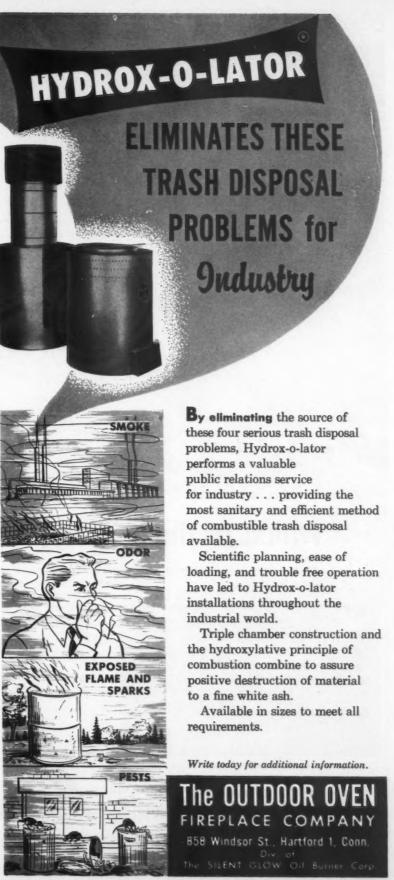
The dynamic growth of Clairol may best be seen in the ever increasing need for space. The firm has outgrown its physical plant—not once, but many times since it was started in a tiny office in New York City. In 1940 a plant was opened in Stamford, Conn. As the company grew at an ever accelerated pace it became necessary to erect an even larger plant. The present Clairol Building in Stamford was opened in January 1952, and covers seventy times the amount of space originally used—with additional expansions still being made.

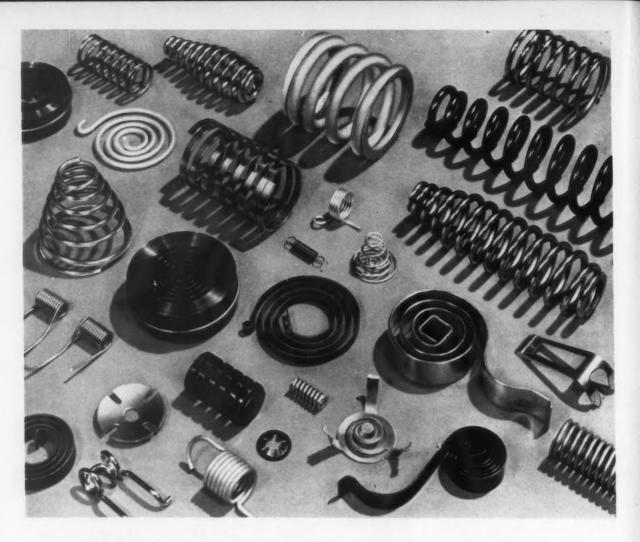
Manufacturing and Distribution Methods

Clairol manufactures its own products in its own plants. Its sales force receives a thorough training for a four to six week period in the use of Clairol products to qualify as a haircoloring technician. They are all licensed beauticians. A similar procedure is used in manufacturing and distributing Clairol products throughout the world. In some European countries it is known as Amirol. Some of the foreign localities are Canada, South America, France, Switzerland, Italy, Belgium, Denmark, Great Britain, Iceland, Netherlands, Portugal, Spain, Sweden, Australia, New Zealand, Guam, Philippines, and Union of South Africa.

The history of Clairol is one that should be told in terms of people. Most of the company's top executives started with the company 20 to 25 years ago. With the company's policy of promoting from within, these people have moved up to head departments. These people, many of them Connecticut citizens, are too numerous to mention individually. They have loyally served the company and the entire beauty industry for many years. The firm can properly be described as having a familial feeling and a youthfulness, both in the actual age, and the spirit of its members

Among the benefits given to all members of the firm is life and accident insurance coverage with the Connecticut General Life Insurance Company of Hartford, Conn. The firm pays half the cost of Blue Cross and Blue Shield Hospital insurance. To supplement the hospital coverage, whenever illness extends beyond twenty-one days, the Company provides Major Medical Catastrophe Insurance for its mem-





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Public Relations

By A. Carl Messinger Public Relations Director

♦ HOWEVER history may write its pages concerning the Eisenhower administrations, one thing is certain: The President has entered the realm of public relations more vigorously than his predecessors. In news conferences and speeches, Eisenhower has talked directly to the people on subjects not usually discussed by the White House occupant. A good example of this is Eisenhower's discussion linking inflation and productivity.

Recently the President pointed up another public relations problem when he remarked: "The American citizen in these times has a staggering job in keeping up with the facts and issues of

a fast-moving world.

"He is seemingly expected to understand everything from the effects of a change in the Federal Reserve discount rate, to a boundary dispute in mid-Africa, to the impact of our stockpiling policy in the zinc industry.

"Presumably to help him gain this understanding, every day millions of words pour out of our presses and loud speakers to tell him about the day's news and controversies. Along with this he is practically inundated by a volume of advice and exhortation flowing from political circles, as to what his opinions and actions should be.

"Out of such a welter of words and widely diverging counsel, how can the thoughtful citizen develop for himself sensible decisions on current issues?"

We, too, are concerned with the millions of words pouring from the newspapers and broadcasting stations. Our concern is that the voice of industry is a still small voice that needs to be heard much more strongly.

We were told recently by a young lady that the Association seems to be "Articulate and vocal." Coming from one interested only casually in current affairs (chemise excluded) we thought that was quite a compliment. It is a compliment especially to the cooperative and fair news media we have the privilege of working with in Connecticut.

But, however articulate your Association may be, to have real impact the voice of industry needs to be heard through its multitudinous members. Can you imagine, for example, what the effect on public opinion would be if each company began telling to its

employees and the public the true story of industry's profits, ownership and public service?

How many parents know that around the depreciation rate on productive machinery centers industry's ability to provide jobs for the upcoming generation?

How many persons realize that 50 Naugatuck Valley companies surveyed showed only 1 cent and a half of the sales dollar going to share-

owners as dividends?

How many owners of voices clamoring for you to "do something" realize the tax burden on each product they help make: e.g., 206 taxes on an automobile; 116 taxes on a man's suit; on a loaf of bread, 151 taxes?

History is filled with examples of the mainstream of events changed by a highly vocal minority. It is still happening, probably more so today. The greatest contribution your company can make is to speak frankly concerning the economics involved in how we earn our living. How can you expect the public to reach sound conclusions concerning the Connecticut enterprise system unless you keep informing that public?

You can do this through speakers particularly to small civic groups and service clubs, where a question and answer period allows two-way communication; economic education of your own employees; and full use of newspapers, radio and television. The latter are interested in annual and periodic reports, research programs, sales promotion campaigns, summaries of tax payments to state and local governments, to mention only a few subjects—and especially when they are linked to jobs and payroll.

Very often the industry story is being told by large organizations (and we might note in passing that company magazines are now using more economic information than six months ago). But in Connecticut, which is typical of America, wouldn't it be your observation that the smaller company receives more sympathetic attention? Small business has an equally good story to tell—and one with

greater human interest.

To paraphrase the President's remarks, the Connecticut citizen has a staggering job in keeping up with the facts and issues of a fast moving world. Each day he is given opinions concerning new developments, but the voices most often heard are those of political and union leaders, professorial critics, organized minority groups and special interests who would liberally finance new undertakings through siphoning off the earnings of industry.

The problem then is to give people the factual, many-sided aspects of the industrial picture which people need to know and understand in a country where the public is both judge and jury. To do this, we must let the voice of small and medium-sized industry be heard much more forcibly than at present. To have impact it must be

heard often.

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The American Brass Company. 99 Park Avenue, New York 16, New York.

October 25, 1957.

SUMMARY OF ENGINEERING LABORATORY REPORT NO. 102557

SUBJECT: Fatigue Life Test of "Duraflex", Superfine-Grain Phosphor Bronze and Commercial Quality Grade A Phosphor Bronze apring wire.

SFECUSES: Compression springs made from each material, were coiled on arbors to avoid tool marks. The springs had squared ends, a high pitch to obtain high stresses and were heated after coiling in boiling water for 1 hour to relieve residual coiling stresses.

CALIBRATIONS: Each spring had its physical dimensions measured with micrometers and vernier calipers and was load tested in a Comaco Elasticometer Precision Spring Testing Instrument, before fatigue testing and after each 100,000 cycles of deflection to determine loss of load, if any.

FATIBUE TESTIM: A representative number of springs from each material were tested simultaneously under identical conditions.

STRESSES: The stress in the springs, including curvature correction, during the tests were as follows:

36,600 p.s.i. Stress at Initial Installed Position

Stress Range during deflection 36,600 p.s.i. These stresses, for endurance limit testing, are exceptionally high for phosphor bronze spring wire - far higher than those ordinarily recommender for Beryllium-Copper or Stainless Steel for such server service and are comparable to those used for good quality Spring Steel.

RESULTS: Grade A Springs broke at average deflections of 505,700.

Duraflex Springs were still satisfactory with no appreciable loss of load at 2,000,000 deflections.

NS: 1. Design stresses for Duraflex can be at least 33% higher than those used for Grade A Phosphor Bronze and as high if not higher than design stresses recommended for Beryllium Copper.

High endurance and long fatigue life at high stresses can be expected from springs made of Duraflex Phosphor Bronze.

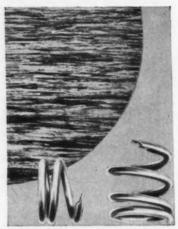
CERTIFICATION: We certify the above summary of our report is accurate, in accordance with the facts and is true in every respect.

Respectfully submitted,

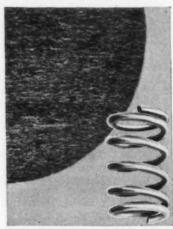
THE CARLSON COMPANY

Harold Carlson





Spring of Alloy A Phosphor Bronze, vn actual size, which broke just after 500,000 deflections. Micrograph (75x) shows typical grain structure of this metal.



Spring of Duraflex showed no appreciable loss of load after 2,000,000 deflections in same test. Micrograph (75x) shows typical superfine-grain structure of Duraflex.

Duraflex is a registered trade-mark for a higher quality phosphor bronze in sheet and wire forms, recently developed by American Brass Company research. Yet it costs no more than regular phosphor bronze. For detailed information-for a copy of the test data-write The American Brass Company, Waterbury 20, Conn.

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Business Tips

By Charles E. Lee, Marketing Department School of Business Administration University of Connecticut

On an Important Market and What Connecticut Business and Industry May Do To Get It

♦ CONSUMER purchases of goods and services in retail markets are conditioned by two important sets of motives—one based upon the common everyday patterns of living in a workaday world, the other upon the need as well as the desire for change, rest and relaxation. When the latter takes the form of travel, as it frequently does, purchasing power is shifted from the usual areas and channels of trade to appear again in sundry and diverse parts and places in the nation's economy.

Nationally, this mobile market, as it is called, is immense. In 1956 it was equivalent in size to two-thirds of the cash receipts of all farm crops—if present trends continue it may soon exceed agriculture as a contributor to the national income. In recent years, it has been as large as the annual sales of the country's ten leading corporations, twice the retail value of the total automobile production,¹ and equivalent to about one-fifth of the federal budget.

To get a fair share of this important market the state, or any part of it, must not only have something to sell-it also must take the initiative and "cry its wares." It is said that one out of two American motorists, leaves for a vacation with no definite destination in mind-he is looking chiefly for change. Obviously, one way to bring more dollars to Connecticut is to attract more vacationers; another is to keep them longer when they come. We have fallen short on both counts. Not only have we attracted less than one percent of the tourists' business of the nation when with our location and natural advantages we should be getting two or three times that amount, but of those that enter our state two out of three go on to vacation in other

Of the one-third that spent some time in Connecticut during the summer of 1956, over forty percent stayed for only a day; another 42% remained for less than three weeks. Only eighteen percent were long-time and seasonal vacationers but they contributed seventy-five percent of the money spent by

vacationers in the state. Most of these visitors came from the large cities of New York State, Massachusetts, and Rhode Island. They came to escape the city heat and still be within range of their businesses or jobs. They enjoyed the rural setting of Connecticut hills, lakes and rivers, as well as the southern expanse of ocean beaches. To some, activities such as boating, swimming and fishing were important attractions but to many more an opportunity for quiet and rest was paramount. No matter what type of community you live in, it will appeal to many vacationers. If your town can draw from fifty to a hundred for the season, it will have the equivalent of an industry with a fifty to one hundred thousand dollar payroll.

Many towns have done nothing to encourage summer visitors, others have even been unfriendly. The inhabitants of some industrial areas have assumed that vacationers were not interested in them. On the contrary, many would like to visit industrial plants if they were given the opportunity and they would not only bring business to the area, but good will would be created for Connecticut firms and their products, a large part of which are sold outside the state.

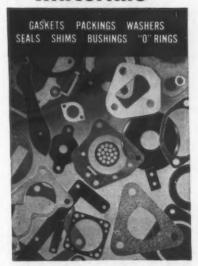
A ten percent drop in Connecticut's economy in the last year suggests that we look carefully at this source of income from the perspective of short-run increment opportunities. Undoubtedly, there are many adjustments that could be made by industry, government and individuals to the current recession. Few offer greater promise of appreciable immediate returns, both to the state economy and to the individual, than does the vacation market. An annual vacation has become an established pattern of American living; the recession may result in little drop in the number of tourists-on the contrary, it could well be the cause of a considerable increase in the number of visitors to Connecticut this summer.

In the summer of 1956, an average of 32,000 out-of-state cars a day carrying more than 100,000 passengers were in Connecticut anywhere from

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¹ See, The Tourist Business—U. S. Department of Commerce Publication, 1957, pg. 1.

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a few hours to several months.1 The employment created by their business totaled more than 12,000 workers. They spent an average of over 11 dollars per person per day which amounted to well over 100 million dollars for the season. Approximately a third of this money went for food to various distributors; another third was spent for lodging in motels, hotels, resorts and other tourist accommodations. Over ten million dollars were taken in by gas stations and garages while more than twice that amount was collected by retail stores, amusement places, laundries and other service establishments. State and local government also benefited from taxes on summer homes, and business property devoted to this market, as well as from those on gasoline, meals and beverages and licenses for hunting and fishing, etc.

The vacation business is not evenly divided among Connecticut towns. While three out of four get some part of this income, twenty percent (32 towns) get a lion's share—over 80 percent of it. The following table shows how it is divided at present²:

CONNECTICUT TOWNS AS VACATION MARKETS

Percentage of Market	Number of Towns	Percentage of Towns
Negligible amount	45	26.6
0.0 to 1.0 Percent	92	54.4
1.0 to 2.0 "	13	7.7
2.0 to 3.0 "	9	5.3
3.0 to 4.0 "	8	4.8
4.0 and over "	2	1.2
Total	169	100.0

The amount of vacation business a community can attract depends upon the community itself—its attitude toward tourists, its recognition of the value of the tourist industry and the steps it takes to stimulate and promote this business. To get its share a town does not need luxurious hotels, multimillion-dollar airports, sun-drenched beaches or grand canyons. Nor does it have to become a playground for the rich.3 In 1956, a third of the vacationers that came to Connecticut earned under \$5,000 a year. Of the long-time and seasonal group, fifty percent earned under \$10,000 and only 11 percent were in the over \$20,000 income

Natural attractions, such as climate (cool summers), lakes, rivers, the seashore, hills, mountains, forests waterfalls or interesting rock formations are often of primary importance. Tourists will travel long distances to see a cave or an old landmark.

Man made attractions such as an ancient fort, battleground, church, museum, mill, graveyard, bridge, mine, smelter, restored village or house, or a modern factory, lighthouse, flower garden, fish hatchery, etc., will draw many, especially if its background and importance are made known with specific directions for finding it.

Special events sponsored by the community-horse shows or races, powerboat races, plowing matches, antique auto shows, square dancing in costume, garden tours or tours of old or new homes, music festivals, plays, calling contests (turkey, duck, hog, etc.), dog shows, fairs, sports days with ball games and contests, and in fact, hundreds of similar ideas may be worked out to attract people and when well handled grow into money-makers for the community and the state. According to the U.S. Department of Commerce,1 tourist profits go to the community that does something with what it has but what it gets in dollars and cents from tourists will be directly related to the kind of service and hospitality it offers. Comfort, cleanliness and friendliness will multiply the value of what your community has to sell.

¹ See, The Tourist Business, pg. 16.
Editor's Note—The studies published by the Development Commission, referred to above, vere made by the author of this article. They may be obtained by writing to the Commission.

How To Be Strong Enough To Stand Alone

(Continued from page 13)

The Soviet Union is the base from which must emanate the Kremlin's effort for world domination. Destruction of this base will not be risked if America is stronger than the Red forces.

Our present defense requirements are so clear, one need scarcely list them:

We must have more intercontinental bombers and North American air bases.

We must add ballistic missiles to our arsenal. (But until missiles can greatly supplement or replace the bombers we must have the best strategic air force in the world.)

We must develop to its full potential the atomic submarine with the capability of firing the IRBM.

We must create our own defense against Red bombers, Red ICBM, and Red submarines armed with the IRBM.

We must create air and missile supremacy-and we must do it now.

We must go where science takes us, and we must get there first.

Cost for Survival

The above American defense program can be effected for far less than

¹ See, Survey of Out-of-State Motorists in Connecticut, Connecticut State Development Commission, 1956.

² See, Connecticut's Vacation Business, A Measure of Its Extent and Distribution, Connecticut State Development Commission.

³ Ibid .- The Tourist Business.

we are now spending. By relinquishing our self-appointed role of the surface defense of Europe, the Army, the Navy and ground support air units could save between five and ten billion dollars. By ending foreign aid, some \$5 billions more could be saved. Thus our 1959 budget of more than \$40 billions could be nicely cut and we could still build adequate defenses far better than the administration is now planning.

The cost of foreign aid for nuclear weapons is not included in the 1959 budget. It has never been announced, but it will be a super-multi-billiondollar program. Possibly \$30 billions would not be enough. If we do go through with it, the inevitable result will be continued sacrifice of our own defenses with the likelihood of war vastly increased.

To arm ourselves adequately, and at the same time spend all we have promised our allies, would be a deadly blow at our economy. Beginning with Lenin, every Kremlin dictator has disclosed that his true aim is to collapse our economy. To continue our present path is playing into the hands of our enemy.

More Than Armament Needed

But at best all that is being proposed for our defense merely means we have entered into an armament race with the Soviets. In the end, armament races always lead to war. Therefore, additional action is essential if the world is to have peace.

The Soviet people are enslaved by the Kremlin. Some 16 million Soviets are now in salve-labor camps being worked and starved to death. The Kremlin rule is so cruel that it is hated by all the people. Likewise, the Communist system is hated. This system, contrary to human instincts, contains the seeds of its own destruction.

We should therefore wtihdraw diplomatic representation at the Kremlin. Possibly this might lead other Free World powers to do likewise. The ferment of revolt against the Kremlin exists. Our withdrawal of recognition would mean to the enslaved Soviet population that the Free World disapproves of the Kremlin dictatorship. With this encouragement, the Soviet people, perhaps not soon—but in due course-will liberate themselves.

World Government?

We now come to a sinister and final misgiving. The Department of State appears to have a strange fascination for the collective concept. Could it be that the motivating spirit of this entire collective effort is a passion for world government? Are foreign-aid and the deployment of troops in some 73 countries a manifestation of one worldism rather than actually for our own American defense?

It is disturbing that both our Secretary of State and our President have expressed an affinity for the superstate.

On February 26, 1941, Mr. John Foster Dulles, then a member of Sullivan and Cromwell, prepared a confidential draft for Mr. C. K. Streit, author of Union Now With Britain. The draft, according to Mr. Streit, was "to serve as a basis for soundings and informed discussions" on the creation of "The Union" of the British Commonwealth and the United States. "The Union" was to have power to determine peace and war, make treaties, and exercise all other attributes of sovereignty. Our entry into the union would have terminated the sovereignty of the United States.

By 1942 Mr. Dulles had gone further. He then endorsed:

"Ultimately, 'a world government of delegated powers.

"Strong immediate limitations on national sovereignty.

"International control of all armies and navies.

'A universal system of money. . . . ' "Worldwide freedom of immigra-

"Progressive elimination of all tariff.

In his book, Crusade in Europe, General Eisenhower recommended "a central and joint agency" to decide disputes among powers by a majority vote. Thereafter the agency "shall have the power and means to enforce its decisions.

Our danger in America lies in the fact that internationalism, under the guise of collective defense, reflects the dominant aim of our national leader-

Under world government, what would happen to the United States can be stated quite simply: The United States would be disarmed. The United States would be bankrupt. The American people would have lost their liberty.

When American liberty dies, freedom is dead everywhere.

How can we avoid these impending mortal dangers? We, the American people, must save ourselves by demanding of the 85th Congress:

A thorough Congressional examination of the military effectiveness of the collective-defense concept.

Speedy American ascendancy in airpower and space weapons.

A thorough Congressional hearing on every phase of our drift into world government.

Withdrawal of Soviet recognition.



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Accounting Hints

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The Hartford Chapter National Association of Accountants

WHAT IS STANDARD?

By ALAN R. BROWN

Norden-Ketay Corp.

♦ NOWADAYS, the standard cost method of accounting for factory cost is widely accepted and used. While it does not have universal application, the method is particularly useful to those companies that manufacture a large number of identical or similar items. They find that standard costs provide an excellent means of cost control and usually, though not always, a reduction in accounting clerical expense. When standards are firmly established, each part can be analyzed for possible cost reduction from a reliable base.

But what is the preferred type of standard, and how can it be computed? Whether the measured cost is for direct materials, labor, or overhead, there must be a premeditated relationship between the standards and actual cost. This varies widely with preferences of different managements, but may be roughly classified as ideal, practical, or identical.

The ideal standard is next to impossible to achieve, reflecting the best of operations and conditions. The identical standard cost is maintained as close to actual cost as possible, measuring only the change from the date on which the standards were last set. The practical standard bears a family resemblance to actual cost but contains enough of the ideal to reward an optimum performance and expose carelessness.

Each of these standards has it proponents and advantages. The ideal standard serves as a constant spur to improvement, since the performance can never equal the goal. One interesting feature of this method is the establishment of standards for purchased items by computing the job as though it were being manufactured inside and adding an appropriate profit. If there is sufficient knowledge of the production skills involved, this serves as a check on both the vendor and the buyer.

The identical standard appeals to the accountant. It permits an evaluation of the inventory that will be acceptable for both the financial reports and income tax reports without the need for sizeable variance adjustments. The cost reduction analyst can use the identical standard for computing potential savings and have confidence that actual results will match. And there need be no "normal" variance computed to bring standards up to a workable budget.

The practical standard, however, contains the better features of both the ideal and the identical. It does not automatically include inferior labor or material standards merely because they are the best that the company can achieve temporarily, and yet does not vary so far from actual cost that it is unrealistic for inventory pricing, cost reduction work, or budgets. It represents a compromise between a control standard and an inventory standard. The standards for each of the three

The standards for each of the three basic elements of cost may differ in principle, but the accountant must assure himself that significant variances will be measured and that he will obtain reasonable costing.

Standards for purchased materials should be reviewed by the accountant, who will compare them with previous purchase orders. Three current quotations from vendors should be available for each major component. These standards will necessarily tend to be identical with actual cost, but in this case the variations from previous cost is the significant trend to be measured.

The method of payment for labor will often dictate the type of labor standard to be used. For example, if compensation is by piece rates, these will be used for standards, and since the labor cost of a part is always the same, the worker absorbs his own inefficiencies, and compensation for imperfect working conditions is automatically separated. All other methods of payment involve the measurement of time taken, and the standard level of performance may be chosen from a wide range; most often, the time taken by the average trained employee working under average conditions is used for standard. The use of inefficient tooling or substitute machinery must be reflected as an unfavorable variance. Except for his participation in the de-

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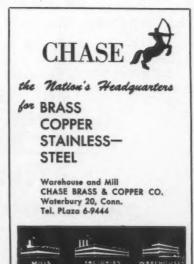
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termination of the level of efficiency to be used for standard, the accountant is dependent upon the time study and methods experts for the establishment of labor rates.

Standard overhead, however, is the direct responsibility of the accountant. The most widely used form of standard overhead is based on a "normal" production level, with deviation from standard expressed in two parts—volume variance and performance variance. The standard is computed by applying either a dollar rate to total standard hours or a percentage to direct labor dollars. The rate method avoids fluctuation of overhead as a result of changes in the average labor rate.

The accounting practice herein employed is to charge the variance to current cost of sales and only the standard overhead to inventory. The effect of this, as opposed to the use of actual overhead in inventory, is to tend to stabilize inventory values and profit margins at standard but to accentuate the effect on total profit of sudden, marked changes in the volume of production. The difference between the two methods of handling overhead is more noticeable in the manufacture of such products as heavy machinery that have a slow inventory turn-over. The use of direct costing or a similar procedure that charges current sales with all period costs also accentuates the highs and lows of the short-run business cycles.

To avoid this effect as far as possible, the accountant should not maintain his overhead rates at the same level for a number of years in the face of rising costs, even if a temporary tax advantage is obtainable. The overhead standard should be revised annually to reflect price changes. Also, the accountant should take a conservative position on the selection of a "normal" production volume and use a volume that has an historical basis, changing it gradually for the introduction of new products and the increase in population and purchasing power. In other words, the accountant should maintain a practical standard, not ideal or

Although the accountant is under constant pressure to use standards that provide exactly the comparisons that operating personnel feel that they need to control purchases or manufacture, he must remember that his first responsibility is financial. Since most standards will be used in costing inventories and for profit measurement, the accountant must consider changes in types of standards in terms of the effect on financial reports in good times and bad.

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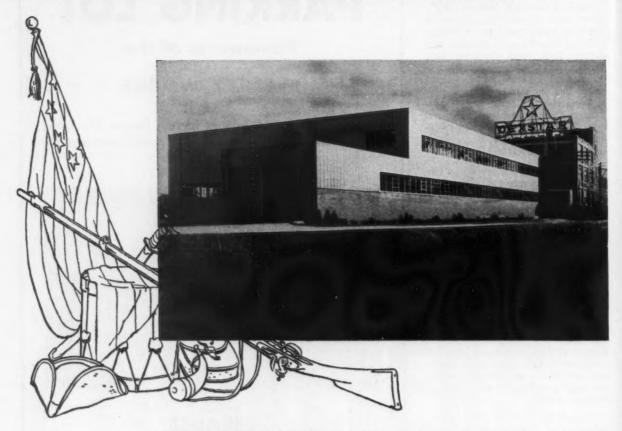
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Spotlight on the Future

Contributed by National Association of Purchasing Agents By Chester F. Ogden, Manager of Purchases The Detroit Edison Company

General Business Conditions

· Purchasing executives report that business is coasting and still seeking the critical turning point in the present recession.

The new order situation remains as one of the bright spots. This month there is again a slight improvement from last month's figures. 27% say their position is better, 44% report no change, and 29% tell of a decrease.

During the past month, there has been little change in the production figures. 54% say their production is the same, while 30% report decreases, and 16% increases.

It is significant that committee members report prices of more and more of the items they buy are beginning to move downward, in the normal recession direction.

Buyers are still reluctant about making forward commitments and, with nothing in short supply, they will continue to "play it close to the chest."

Unemployment remains as a major problem, particularly in the large manufacturing communities.

Purchasing executives are still not satisfied with their purchased material inventory levels, and strong efforts are being made to reduce them further.

For April, we asked our members to comment on the role vendor warehousing is playing in keeping their inventories down. Many mentioned that it has been a part of their inventory picture for years and is getting no more consideration now than in the past. As a matter of fact, the consensus of those reporting is that no special attention is being given to this matter now. Those indicating the use of more vendor warehousing equaled those using it less, with most showing it in a normal role.

Commodity Prices

More commodity prices are showing signs of moving in the normal recession direction-down. While major raw material markets have been weak prices of many manufactured industrial items have begun to slide. The magniMost of our members are finding that real competition is reducing prices on many of the items they buy. Only 6%, the smallest number since early 1954, say they are paying more. No change is reported by 71% and reductions are reported by 23%.

Inventories

Further efforts are being made to reduce purchased material inventoriesso say our reporting members. A few warn that the inventory reduction program is fine as long as all materials remain in their present, abundantly available state, but that a scramble for materials could develop if any significant group were to make "buy decisions," depleting present vendor stocks. Over-all, only 9% report any inventory increase, 47% no change, and 44% reductions.

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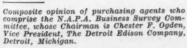
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Employment

While the general consensus for April again reflects the slightly improved position indicated in March, several critical areas are mentioned by purchasing executives. These seem to be centered in the major manufacturing communities as might be expected. Where 45% still show employment as worse, 9%—the highest number since last November—indicate an improved situation.

Specific Commodity Changes

Price concessions in local areas are resulting in spotty reporting of lower prices on items when there has been no announced price reduction.

On the *up* side are: Raw sugar, electrical equipment, caustic soda, and

welding rod.

On the *down* side are: Aluminum, copper, lead, scrap iron and steel, paper containers, coal, residual fuel oil, cotton, paint, and valves.

In short supply: As in March, noth-

ing.

University of Hartford Founders Dinner

(Continued from page 31)

Electric Light Company, who was appointed head of the university's de-

velopment program.

Other speakers were toastmaster Charles J. Zimmerman, president of Connecticut Mutual Life Insurance Company; James H. Kinsella, Mayor of Hartford; Dr. Alan S. Wilson, president of the university's administrative council; and Rabbi Abraham J. Feldman. The invocation was offered by the Rev. Henry J. O'Brien, Archbishop of Hartford, and the benediction by Rev. John H. Esquirol, Dean of Christ Church Cathedral.

The breadth of vision of those responsible for the university's future was significantly evident at this anniversary event. The broad community support for this pioneering educational enterprise is a good sign for the future of higher education in this area of

Connecticut.

Vulcan Radiator Anniversary Dinner

(Continued from page 10)

ing kilns, as well as a host of other

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Torrington		wer Whee turing Co		y Th	e rrington	Ameri	can Bra	ss Compan	Goods ny The		erbury	Rock	kbesto	s Proc	lucts C	orp		New H	laven
oseph Mer		s and Pho	otosta	its	Hartford	Rostan	nd Mfg		Co The (f	Wat	Brass	Gen		Electric	-Nonm	any		Bridg	eport
Bigelow Co		Bollers		New	Haven	War	res)		Company	A	Ailford r)	Gen	eral 1	Electric	Comp	any		Bridg	eport
Clark Brot	hers Bolt				Milldale		rn Brass Corp	Mills Di	iv Olin Ma	athieson	Chem- Haven	Gen	eral 1	Electric	Comp	any	itranc	Bridg	eport
Atrax Com	pany The	ring Tool (solid ca ox Board	rbide)	Ne	wington	Ameri	can Bra	ss Compan	l Product	Wat	erbury	And	irew !	B Hen	dryx C	ages o The	(bird	and an New H	imal) Iaven
Bird & Son Continents Folding Federal Pa	l Can Co	., Boxboa	rd an	M	Britain Iontville	Chase Plume Scovill	Brass & Atwo	Copper ood Mfg (acturing (Wat Tho Waterb	maston ury 91	Har	rtford	Specia	Compar al Mach	inery		Han Han Wate	rtford
Federal Pa Lydall & F Robertson	oulds Pap	x Co	Haven e	TAT ST	ersailles nchester fontville	ical	Corp		Equipmen	New	Haven Milford	Mal	llory 1	Ca	ims, 2 ries, In l Corpo	Dimen:	sional	est Hai	rtford
Bird & Son	(a)			New	Britain	Donne	lly Bric	Brick-I	Building	New	Britain			Ca	ams, 3 ries, In	Dimen:	sional	est Ha	rtford
Connecticu Continents Corrugai	l Can Co	Fibre I Division	Drum	and	Portland	Howa	rd Com	oany	s—Fire	New	Haven	Par	ker-H	artford	Canvas	oration			rtford
fitted too	dig Co	kle boxes	sn, bo	ond,	Durham	Co	ine wor		tories Div	5	Shelton			f Inc	Cap	acitors	The c		rtford
Middletown Warner B and Pa Setup)				aper, ater B	Acetate Display, ridgeport	Sarge	nt & Con Hooks	mpany (So	Vire Goods crew Eyes and Eyes,	, Screw	Hooks)	n	ner)		rbide I			mica & Willin	
City Lumb	Boxe oer Co of	Bridgepo	ates ort In	c Th		Hasti	ard Saa		ching nery Co T		Haven	Sta	te Pr	oducts	Co (eyelet	special	shape	dies)
Leshine C		ces-Foldi	ing		Branford		Bron	ze & Alur	minum Ca	stings	artford	The	omasto		arbide l & D				nastor
Merriam I	Afg Co (1	Bond and Files and	Secur	ity, (Cash and	chir	ned)		any Inc	(or ma- Guilford	Atr	rax C	ompan	y The	(solid)	ols	New	ingto
Scovill M	lanufactu:	ring Con	npany	(al	Durham uminum,	Bridg	eport D	eoxidized	nd Castin Bronze (Corp	dgeport				& Die		Resist	810	erbur
pin, oin	tment, pi	copper-cost ll, powder -Paper-F	r, rou	ige, v	anity)	Fuller	Brush	Co The	-Brushes		lartford	Sta	andard		Card	Clothi	The	Manc (for	textil
Atlantic C Bridgeport Carpenter-	Paper B	p	Co In	B	Norwich ridgeport	Hawi	hwanda i	& Sons	ckles cturing Co	Staff Bri New	ordville idgeport Britain		mills) assell	Organ	Card ization	Index Inc		offord S We	pring
Folding	Carton I	5	ard ar	nd Sar	Montville dy Hook	Paten Risdo	n Manu	n Co The	Co John	M Russ Na	terbury sell Div ugatuck	San	rgent Bobs,	& Co	Carpen mpany Screws	(Plane	s. Sa	uares, i Saw New	Vices
Folding C H J Mills National	Inc				Bristol	The	hecaries	Hall Con	mpany Di hemical	ivision Compan		В	F Goo	odrich	Sponge	arpet Produ	cts Di	vision S	
Board (o Inc (p	aper foldi New H	ing)	and \	Versailles	Lea 1	Mfg Co	Building	: Material	Wa	terbury	В	F God	odrich	Carpe	t Cush Produ	ion cts Di	vision S	Shelto
Warner E	ros Co T	he Paper—	Setun	В	Montville ridgeport		Lumber	Co of Br	idgeport I	nc	idgeport				Carpet d Carp	s and	Rugs	Thomps	
Bridgeport Heminway H J Mill Strouse A	Paper B Corpora Inc	lox Co tion The	Setup	N	ridgeport Vaterbury Bristol w Haven	ligh	e & At	twood Mf	g Co Th	Th	sene oil omaston	Be		Car	ton Clo	sure E	quipm	ent atic," "	
Warner B	ros Co Ti Braid—El	astic & N	lon-el	В	ridgeport	Peabo		incering C	-Automat Corporation	ı S	tamford	Ba	ssick	Compa		asters e (Indi	ustrial	and Ge	eneral
Essex Mi	В	rake Cabi	les	w	Essex	Peabo	ody Eng	incering (Coal and Corporation	n (Comb	oined) tamford	Ge	eorge :	P Clar	Caster:	-Indu		Vindsor	
Eis Manu	Br	ake Linin				D .1	ody En	Burne	ers—Gas Corporation	on (Bla	st Fur-					astings Co (g			
Inc (A Russell	utomotive Mfg Co	and Indi	ustrial es, F	used	Bridgeport	nac	ce)	Burners-	-Gas and	Oil	tamtord	Co	nnecti		falleabl			Koci	ky Mi alleab
Eis Manu	Brake	e Service		5	iddletown	read	ody Eng		Corporation	8	ined) itamford	Ea Ea	uctile	Iron Malle	Foundr able I	ron Co	mpany	The	ration (mall
American	Bra	ass & Bro	onze (sheet	t, wi	ire, rods,	Peab	ody Eng	Burners incering	-Refiner Corporation	n (For	Gas and	Fa	Nodul	lirming	hetal ar ham (on, Stee	Compan	y Inc	(Mee	nson
strip)		Mills Co		y (co	Bridgeport	Abbo		Co The	nishing (Burnishi	ng Barr	ells and	H	ugal, artfor	d Elec	mold)	eel Co	rp The	Inc (c East H (carbo	addai
tubing)		Ompany (E	Bridgeport	t Pion	eer Stee	Media) d Ball Co llic shaper	ompany In	ne (balls	Hartford , cones, nionville	Pi M	high alleab	le Car tensile le Iron	irons)	ompan	y (gra	eable in	oy ar ainvil on ar
Miller Co	mpany Tl ts, strips, Atwood	per Co he (phosph rolls) Mfg Co	hor br	onze	Vaterbury and brass Merider eet, wire	S Atra	x Comp	any The tney Co Ir	Burs (carbide) ac	West 1	ewington Hartford	M No	ewton	n Four	ndry Co Haven	Co (2	inc an	New ad alun e West	ninun Hav
Scovill M	anufactu	ring Comp	pany	Wate	erbury 91 k wire)	Dist:		Assembl	isways ies Depa			Pi	roduct	o Mac	ble Ste hine Co um Ca	ompany	The	Bri	dgepo airfie
		Co The (s		and	Seymou	r	ectric C	В	uttons		Plainville	Ti	Bronz urner	Man	ymour	Mfg (ompan Co Th	y (Br. Waterb e (gray	ury s
	Brass Mil	lls Divisio	on of (Olin]	Industries ew Haves	s Fran	nt Butto	& Sons ek Manufa	acturing C	o The W	aterbury	U	nion .	Mig C	o (grey	r iron	k semi	New	Brita
Mitchell : Plume &	Atwood I	Bronze Ir & Refining Mfg Co T te Compan	co I	Inc 7	Botsford Thomastor Bridgepor	Scov d Ta n Wat	rill Man ack Fast	ufacturing eners)	Company Inc (Uni	Wate	orm and rbury 91	W	sash	Weight	3)			e (high Wa gray ire	terbu

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Castings-Investment Arwood Precision Casting Corp Groton	Coatings Rischoff Chamical Connection (Parishle Plantic	Copper Castings
Cements—Refractory	Bischoff Chemical Corporation (Peelable Plastic Coatings) Ivoryton	Knapp Foundry Company Inc Guilford Copper Sand Castings
Mullite Works Refractories Div H K Porter Co Inc Shelton	Boesch Mfg Co Inc Danbury	Bridgeport Deoxidized Bronze Corp Bridgeport
Centerless Grinding Winsted Centerless Co Winsted Centers	Bittermann Electric Company Canaan	Copper Sheets American Brass Company The New Haven Copper Co The Seymour
Ready Tool Co The (anti friction, carbide tipped, high speed) Stratford	National Pipe Bending Co The 160 River St New Haven	Copper Shingles
Hamco Inc (gasoline or electric driven) New Haven	Whitlock Manufacturing Co The Hartford Cold Molded Electrical Insulation	New Haven Copper Co The Seymour Copperware
Russell Mfg Co (for missiles, and for friction materials) Middletown	Meriden Molded Plastics Meriden Commercial Heat Treating A F Holden Company The	Bridgeport Brass Company (cooking utensils) Bridgepor
Chain Risdon Manufacturing Co John M Russel Div Naugatuck Turner and Seymour Mfg Co The (weldless,	52 Richard St West Haven Commercial Truck Bodies Metropolitan Body Company Bridgeport	American Brass Company The Bridgeport Brass Co Bridgeport Brass Co
sash, jack, safety, furnace, universal, lion and cable) Chain—Bead	Scovill Manufacturing Company (powder and rouge) Waterbury	Russell Mfg Co The (marine & aero shock) Middletown
Auto-Swage Products Inc Bead Chain Mfg Co The Chain—Power Transmission and Conveying Whitney Chain Company Hartford	Comparators Pratt & Whitney Co Inc (Electro-limit and Air-O-Limit) West Hartford	General Electric Company Bridgepor
Chairs The Hitchcock Chair Company Riverton	Norwalk Company Inc (high pressure air and	General Electric Company Bridgepor Cords—Heater
Chemical Analysis State Testing Laboratory Bridgeport	gas) South Norwalk Computers Newton Co The (electronic) Manchester	Essex Mills Inc General Electric Company Essex Bridgepor
Carwin Company The North Haven Chemicals	Newton Co The (electronic) Reflectone Corporation The Concrete Products Manchester Stamford	General Electric Company Bridgepor
Chemicals Apothecaries Hall Company Division The Hubbard Hall Chemical Company Waterbury	Plastricrete Corp Hamden Condenser and Heat Exchanger Tubes	General Electric Company Bridgepor Seeger-Williams Inc Bridgepor
Carwin Company The North Haven Macalaster Bicknell Company New Haven MacDermid Incorporated Waterbury Naugatuck Chemical Division United States	Bridgeport Brass Company Scovill Manufacturing Company Waterbury	Sonoco Products Co (Climax-Lowell Div) Mysti
Rubber Co New England Lime Company Phizer & Co Inc Chas United States Chemical Corp (maintenance	Sonoco Products Co (Climax-Lowell Div) (Paper) Mystic	Wassell Organization Inc Westpon
and powdered hand soap, floor waxes, cleaners, disinfectants, fuel additives) New Haven	Gorn Electric Co Inc (precision miniature electrical and printed circuit) Stamford	Corrugated Box Manufacturers Connecticut Container Corporation New Have Corrugated Containers Inc Hartfor
Chemicals—Agriculture Naugatuck Chemical Division United States Rubber Co (insecticides, fungicides, weed killers) Naugatuck Christmas Light Clips	Consulting Engineers McNeal J D (Electrical and Electronic) New Haven Stanley P Rockwell Co Inc The (Consulting) 296 Homestead Ave Hartford	Corugated Shipping Cases Connecticut Container Corporation New Have Continental Can Co., Fibre Drum and Corrugated Box Division D L & D Container Corp 87 Shelton Av
Foursome Manufacturing Co Chromium Plating Chromium Corp of America Waterbury	Pratt & Whitney Co Inc West Hartford	New Have
Chucks Chucks Chucks Chucks Chucks	Contract Machining Laurel Mfg Co Inc (Precision Production Small Parts) Plainville Malleable Iron Fittings Company Branford	Eyelet Specialty Co The Plume & Atwood Mfg Co The (metal) Scovill Manufacturing Company Waterbu
Cushman Chuck Co The Hartford Jacobs Manufacturing Co The West Hartford Union Manufacturing Company New Britain	Contract Manufacturers Fenn Mfg Co The (Precision Machine Work)	J B Williams Co The Glastonbu
Jacobs Manufacturing Co The West Hartford Chucks & Face Plate Jaws	Newington Greist Mfg Co The (metal parts and assemblies) 503 Blake St New Haven	Cotton and Asbestos Wicking Bland Burner Co The Hartfo
Cushman Chuck Co The Hartford Union Mfg Co New Britain	Merriam Mfg Co (production runs—metal boxes and containers to specifications) Durham Plume & Atwood Mfg Co The (metal parts	Veeder-Root Inc Hartfo
Chucks—Power Operated Cushman Chuck Co The Hartford Union Manufacturing Company New Britain Circuit Breakers	and assemblies) Scovill Manufacturing Company (metal parts and assemblies) J H Sessions & Son Bristol	Scovill Manufacturing Company (hose as Waterbu
Circuit Protective Devices Dept., General Elec- tric Co. Plainville Circulating Pumps	Controllers Bristol Company The Waterbury Manning Maxwell & Moore Inc Stratford	Farrel-Birmingham Company Inc (Stone as Ore) Anson
Corley Co Inc The Plainville Clay Howard Company (Fire Howard "B" and High	Controls—Remote Panish Controls (Remote Controls for Marine	Cups—Paper Continental Can Co Paper Container Div Kensingto
Temperature Dry) Cleaning Compounds Enthone Inc (Industrial) New Haven	& Aeronautic Applications) Bridgeport Controls Remote, Hydraulic Sperry Products Inc Danbury	Cushioning for Packaging B F Goodrich Sponge Products Division Shelt
MacDermid Incorporated Waterbury	Converters DC to AC Electric Specialty Co Stamford	Gilman Brothers Co The Gilm Cut Stone Dextone Company New Hav
Clock Mechanisms Lux Clock Mfg Co The Waterbury Clocks	Conveyer Systems Hayes-Te Equipment Corp Connecticut Con-	Cutters Atrax Company The (solid carbide) Newingto
E Ingraham Co The Bristol Seth Thomas Clocks Thomaston United States Time Corporation The Waterbury	veyor Division (Conn-Veyor) Leeds Conveyor Mfg Co The Production Equipment Co Unionville East Haven Meriden	Barnes Tool Company The (pipe cutters, han New Hav Mitrametric Co The (ground pinion)
Lux Clock Mfg Co The Waterbury	Copper American Brass Corp The (sheet, wire, rods,	Pratt & Whitney Co Inc (Milling Cutters types) West Hartfo
Clocks—Automatic Cooking Lux Clock Mfg Co The Waterbury Clutches	Bridgeport Brass Company (sheet, rod, wire and tubing) Bridgeport	Cutting & Creasing Rule Bartholomew Co H J Bris
Snow-Nabstedt Gear Corp The New Haven Clutch Facings	Chase Brass & Copper Co (sheet, rod, wire tube) Waterbury	Decalcomanias Sirocco Screenprints New Hav
Raybestos Division of Raybestos-Manhattan Inc (Molded, Woven, Semi-metallic and Full-metallic) Bridgeport Russell Mfg Co (rubber Shock Cord—all sizes and types) Middletown	Thinsheet Metals Co The (sheets and rolls) Waterbury Western Brass Mills Div Olin Mathleson Chemical Corp	Deep Hole Drilling & Reaming Hamden Deep Hole Drilling Co Hamd Wilson Arms Co The (Adv

Deep Drawings Stanley Pressed Metal New Britain	Joseph Merritt & Co Hartford	Arrow-Hart & Hegeman Electric Co The
Delayed Action Mechanism Hartford	Corley Co Inc The Plainville	Hartford Electrical Conduit Fittings & Grounding Specialties
W Cramer Company Inc The Centerbrook	Drill Presses	Gillette-Vibber Company The New London
Demineralizers Crystal Research Laboratories Hartford	Townsend Mfg Co The H P Elmwood Drilling Machines	Electrical Control Apparatus Plainville Electrical Products Co The Plainville
Design Designers for Business and Industry (appearance-product) New Haven	Drilling Machines Howe & Fant Inc (Turret Type) East Norwalk Pratt & Whitney Co Inc (Deep Hole) West Hartford	Electrical Motors Electric Specialty Co U S Electrical Motors Inc Stamford Milford
Design & Drafting Service Smith & Winchester Mfg Co The South Windham	Drilling and Tapping Machinery Hartford Special Machinery Co The Hartford	Bristol Co The Waterbury
Diamonds—Industrial	Atwater Mfg Co Altwater Mfg Co Billings & Spencer Co The Consolidated Industries Plantsville Hartford West Cheshire	Electrical Relays and Controls Allied Control Co Plantsville
Dictating Machines	Consolidated Industries Wilcox Crittenden & Co Inc West Cheshire Middletown	Plainville Electrical Products Co The Plainville Plainville
Dictaphone Corporation Gray Manufacturing Company The Hartford SoundScriber Corporation The New Haven	Druggists' Rubber Sundries Seamless Rubber Company The New Haven	Electrical Test Equipment
Die Cast Dies C & F Tool & Die Corp Bridgeport	Duplicating Machines—Automatic Pratt & Whitney Co Inc West Hartford	McNeal J D New Haven Electrical Wiring Systems Wiremold Co The Hartford
Die Castings	Duplicator Tables Regent Machine Co Bridgeport	
Newton-New Haven Co Inc New Haven Die Casting Dies	Russell Mfg Co (rubber shock cord—all sizes and types) Middletown	Electronic Parts Prentice Mfg Co The G E (stampings to customers' specifications) Kensington Terryville Manufacturing Co (Stampings to customers are in the customer a
ABA Tool & Die Co Eastern Machine Screw Corp The Truman & Parcher Steine	Elastic Narrow Fabric Essex Mills Inc Essex	Flectronics
Weimann Bros Mfg Co The Derby	Electric Cables General Electric Company (for residential, com-	Gray Manufacturing Company The Hartford McNeal J D New Haven Middletown Mfg Co (metal cabinets, chassis
Eastern Machine Screw Corp The New Haven Geometric Tool Division, Greenfield Tap & Die Corp New Haven	mercial and industrial applications) Bridgeport Rockbestos Products Corp (asbestos insulated) New Haven	panels, brackets, cases) Middletown Newton Co The Manchester Ripley Co Middletown Sturrup Larabee & Warmers Inc Middletown
Die Polishing Machinery Hartford Special Machinery Co The Hartford	New Haven Electric Cord Springs Bristol Spring Manufacturing Co Plainville	City Plating Works Inc. Bridgepor
Die Sets Pratt & Whitney Co Inc (Precision)	Electric Cords	Waterbury Plating Company Waterbury
West Hartford Producto Machine Company The Bridgeport Union Mfg Co (precision, steel and semi-steel)	Rockbestos Products Corp (asbestos insulated) New Haven	Electroplating—Equipment & Supplies Apothecaries Hall Company Division The Hubbard Hall Chemical Company
New Britain Die Sinkers Pratt & Whitney Co Inc West Hartford	Ripley Company Inc Middletown Electric Fixture Wire	Comco Inc Div of Enthone Inc Lea Manufacturing Co The Waterbury Waterbury
Dies	Rockbestos Products Corp (asbestos insulated) New Haven	Electroplating Processes & Supplies
Allstate Steel Rule Die Mfrs. (steel rule, cut- ting & blanking) Waterbury Hoggson & Pettis Mfg Co The 141 Brewery St New Haven	Electric Hand Irons Winsted Hardware Mfg Co (trade mark "Durabilt") Winsted	Enthone Inc New Haver
Mitrametric Co The (ground for gears) Torrington	Electric Heating Elements	Barnum-Hayward Electrotype Co Inc New Haver Lockwood Sons Inc Wm H Hartford
Pratt & Whitney Co Inc (Monocone and Ducone Dies) West Hartford	Hartford Element Co Hartford Electric Ignition Harnesses	New Haven Electrotype Div Electrographic Corn New Haven
Dies & Die Cutting Allstate Steel Rule Die Mfrs. (cutting, creasing, perforating, steel rule) Douglas Co Geo M New Haven	General Electric Company Bridgeport	Elevators Eastern Elevator Co (passenger and freight) New Have
Douglas Co Geo M Tsingris Die Cutting Corp. (customers' material or printed matter) Waterbury	Case Brothers Inc Stevens Paper Mills Inc The Windsor	General Elevator Service Co Hartford Enameling
Display Containers National Folding Box Co Div Federal Paper Board Co Inc (folding paperboard)	Tsingris Die Cutting Corp. (die cutting) Waterbury Electric Lighting Fixtures	Waterbury Plating Company Waterbury Enamels & Lacquers
New Haven and Versallies Displays—Design & Production	Fan-Craft Mfg Co (residential, church, post lanterns) Plume & Atwood Mfg Co The Thomaston	Dobbs Chemical Co The (industrial finishe to customers' specifications) New Have
Ad-Craft Displays, Inc. Stifel & Kufta Bloomfield New Britain	Wasley Products Inc Plainville Electric Motor Controls	Pratt & Whitney Co Inc West Hartfor
Displays—Metal Durham Mfg Co The (Designing & Mfg to customers' specifications) Durham Merriam Mfg Co (Contract Work to Individual	Arrow-Hart & Hegeman Electric Co The Hartford	Atrax Company The (solid carbide) Newingto
Specifications) Parsons Co Inc W A (custom designed)	Berger Sign Co Hartford	Engraving—Plastic and Nonferrous Metals Salisbury Products Inc Lakevill
Distribution Centers Distribution Assemblies Department, General Electric Co	Arrow-Hart & Hegeman Electric Co The Hartford	Curtis 1000 Inc United States Envelope Company
Sargent & Company Yale & Towne Mfg Co The New Haven Stamford	Cramer Controls Corporation The Centerbrook	Hartford Division Hartfor Envelopes—Stock and Special Continental Can Co Paper Container Div
Doors Bilco Co The (metal, residential and commercial) West Haven	Electric Underfloor Duct System General Electric Company Bridgeport	Kensingto
Dowel Pins	Electric Wire General Electric Company Rockbestos Products Corp (asbestos insulated)	State Testing Laboratory Bridgepo
Allen Manufacturing Co The Holo-Krome Screw Corp The West Hartford	Rockbestos Products Corp (asbestos insulated) New Haven	Walton Company The West Hartfor (Advit

Gears and Gear Cutting
Farrel-Birmingham Company Inc
Fenn Mfg Co The
Hartford Special Machinery Co The
United Gear & Machine Co Extruders and Accessories
Standard Machinery Co The (for the Wire and Cable Mfrs)
Mystic Fireworks M Backes' Sons Inc Wallingford Newington Hartford Suffield Fishing Tackle H C Cook The 32 Beaver American Brass Company The Waterbury
Mark Eyelet & Stamping Co (small—metal Wolcott H C Cook The 32 Belate

Flashlights

Bridgeport Metal Goods Mfg Co

Electrical Div Olin Mathieson

Chemical Corp

New Haven Mark Eyelet & Stamping Co (small—metal value)
Platt Bros & Co The P O Box 103 Waterbury Plume & Atwood Mfg Co The Scovill Manufacturing Company Stevens Co Inc Eyelets, Perrules and Wiring Terminals American Brass Company The Waterbury Companies Inc Waterbury Hamco Inc (electric, portable, gasoline driven) New Haven Flat Springs Bristol Spring Manufacturing Co Gemco Manufacturing Co Inc Macalaster Bicknell Company Plainville New Haven Southington Flexible Shaft Machines
Pratt & Whitney Co Inc West Hartford Glass Cutters Fletcher-Terry Co The Forestville Pratt & Whitney Co and Float Switches
Gorn Electric Co Inc (for aircraft and comStamford A D Steinbach & Sons Inc Eyelet Machine Products
American Brass Company The
Ball & Socket Mfg Co The
Cold Forming Mfg Co The
Plume & Atwood Mfg Co The
Stevens Co Inc
Waterbury
Waterbury
Waterbury
Waterbury New Haven Grinding
Farrel-Birmingham Company Inc (Roll and Floor & Ceiling Plates
Beaton & Cadwell Mfg Co The New Britain Farrel-Birmingnam Company Co The (gears, threads, cams and splines) Hartford Horberg Grinding Industries Inc (Precision custom grinding; centerless, cylindrical, surfaces, internal and special)

19 Staples St Bridgeport Fullerton Manufacturing Corp Norwalk Vanderman Manufacturing Co The Willimantic Wiremold Company The Hartford Fabricators Scovill Manufacturing Company brass, bronze, copper, steel) (aluminum, Waterbury Foam Rubber Armstrong Rubber Company The Russell Mfg Co (Teflon, Moulded Fabric, Bearing Surfaces, High Temperature Fabrics) West Haven Pratt & Whitney Co Inc (Pneumatic, High Speed) West Hartford B F Goodrich Sponge Products Division Shelton B F Goodrich Sponge Frounds

Forgings

Atwater Manufacturing Company
Billings & Spencer Company
Capewell Manufacturing Company
Clark Brothers Bolt Co
Consolidated Industries Inc
Heppenstall Co (all kinds and shapes)
Bridgeport
Non-ferrous) rics)
Fan Blades
Torrington Manufacturing Company The
Torrington Grinding Machines
Farrel-Birmingham Company Inc (Roll) Pratt & Whitney Co Inc (Surface, Die, Gear and Cutter Grinders) West Hartford Rowbottom Machine Company Inc (cam) Waterbury Fancy Dress Buttons and Buckles
Waterbury Companies Inc Waterbury Fans-Electric
General Electric Company Scovill Manufacturing Company (Non-ferrous)
Waterbury 91 Bridgeport Fasteners—Aircraft
Scovill Manufacturing Company
Aircraft Fasteners) American Brass Company The Plume & Atwood Mfg Co The (PANELOC Waterbury Waterbury Foundries
Connecticut Malleable Castings Co Waterbury (malleable Fasteners—Laundry Proof ovill Manufacturing Company (snap fasteners) New Haven Seymour Stratford iron castings)
Derby Castings Company, The
Ductile Iron Foundry Inc
Farrel-Birmingham Company Inc Guards for Machinery Wheeler Co The G E (GRIPPER Waterbury New Haven G E Prentice Mfg Co The
Scovill Manufacturing Company (GRIPPER zippers and GRIPPER snap fasteners)
Waterbury (Iron and Hack and Band Saw Blades Capewell Manufacturing Co The Steel)

Hartford Electric Steel Corp The
Malleable Iron Fittings Co (Malleable Iron and
Steel Castings)

Plainville Casting Company (gray, alloy and
high tensile irons)

Producto Machine Company The
Smith & Winchester Mfg Co The

South Windham Hair Hygiene Preparations
Parker Herbex Corporation Stamford Hammers-Carpenters and Machinists Auburn Manufacturing Company The (mechanical cut parts) Middletown Capewell Manufacturing Company Hartford Auburn Manusacuring Middletown
cal, cut parts) Middletown
Drycor Felt Company (paper makers and industrial) Staffordville
Tsingris Die Cutting Corp. (die cutting)
Waterbury Billings and Spencer Company (wrenches sockets and shop tools)
Bridgeport Hdwe Mfg. Corp The (nail pullers, scout axes, box opening tools, towels, coping saws, putty knives)
Bridgeport Turner & Seymour Mfg Co The South Windham Turner & Seymour Mfg Co The (gray, iron, semi steel and alloy) Torrington Union Mfg Co (gray iron & semi steel) New Britain Felt-All Purpose
American Felt Co (Mill & Cutting Plant) Wilcox Crittenden & Co Inc (iron, brass, alumi-num and bronze) Middletown American Felt Co (Mill & Cutting Flant)

Chas W House & Sons Inc (Mills & Cutting Plant)

Plant)

Unionville Hardness Testers

Ilson Mechanical Instrument Div American
Chain & Cable Company Inc Bridgeport Fountain Pens and Mechanical Pencils Waterman Pen Company Inc Seymour Plant)
Taingris Die Cutting Corp. (die cutting)
Waterbury John P Smith Co The 4 Hardware
Bassick Company The (Automotive)
City Lumber Co of Bridgeport Inc 423-33 Chanel St Fenders—Boat

B F Goodrich Sponge Products Division Shelton
Fiber-giass Fabrication
Davis Co The E J West Haven
Taingris Die Cutting Corp. (mat. sales, die cutting)

Chap Board Waterbury motive) Bridgeport Four Slide Forms
Peck Spring Co Bridgeport Derby New Haven New Haven Gordon Associates
Harlock Products Corp
Bargent & Company
Wilcox Crittenden & Co Inc
and industrial)
Yale & Towne Mfg Co The

Bridgeport
Derby
New Haven
New Haven
(marine heavy
Middletown
Stamford Plainville Frames-Hack Saw Thompson & Son Co The Henry G New Haven Fibre Board Bird & Son Inc
Case Brothers Inc
Colonial Board Company
C H Norton Co The
Stevens Paper Mills Inc The Fuel Oil Pump and Heater Sets Peabody Engineering Corporation S Manchester Manchester North Westchester he Windsor Stamford Gage Blocks
Pratt & Whitney Co Inc (Alloy steel and Carbide, Hoke and USA)

West Hartford Rostand Mfg Co The Milford Stevens Paper Mills also Services File Cards
Standard Card Clothing Co The Stafford Springs Hardware—Trailer Cabinet
Excelsior Hardware Co The Galvanizing
Malleable Iron Fittings Co
Wilcox Crittenden & Co Inc Stamford Branford Middletown Filing Equipment
Wassell Organization Inc Gaskets
Auburn Manufacturing Company The (from all Middletown Corp J H Sessions & Son Yale & Towne Mfg Co The Films Cine-Video Productions Inc materials) Middletown Raybestos Division of Raybestos-Manhattan Inc Milford hattan Bridgeport terials) Filters-Liquid
Alsop Engineering Corporation Tsingrls Die Cutting Corp (from all materials)
Waterbury Hat Machinery Milldale Doran Bros Inc Finger Nail Clippers
H C Cook Co The
Firearms
Colt's Patent Fire Arms Mfg Co Inc Hartford
Junior Screw Machine Products Inc
West Haven
Marlin Firearms Co The
O F Mosberg & Sons Inc
Arms and Ammunition
Chemical Corp

Fire Alarm Systems
Mildale
Mildale
West Ansonia
New Haven
New Haven
New Haven
New Haven Health Surgical & Orthopedic Supports
Berger Brothers Company The (custom made for back, breast and abdomen) New Haven Gaskets-Insulation American Felt Co
Tsingris Die Cutting Corp. (thermal, acoustical, die cutting)
Waterbury **Heat Elements** Electroflex Heat Inc Hartford
Safeway Heat Elements Inc (woven wire resistance type) Middletown Gas Range Conversion Burner
Holyoke Heater Corp of Conn Inc Hart
Gas Scrubbers, Coolers and Absorbers
Peabody Engineering Corporation Stam Hartford Heat Exchangers Whitlock Manufacturing Co The Fire Alarm Systems Gauges Heat Treating
Bennett Metal Treating Co The
1045 New Britain Ave Elmwood
Commercial Metal Treating Co Bridgeport
New Britain-Gridley Machine Division
The New Britain Machine Co New Britain
New Haven Heat Treating Co., Inc. New Haven
Skene Co Inc The William A (metals)
Bridgeport Fire-Lite Alarms Inc New Haven Bristol Co The (pressure and vacuum-recording automatic control)

Helicoid Gage Division American Chain & Cable
Co The (pressure and vacuum) Fire-Lite Alarms and Fire Hose
Fabrics Fire Hose (municipal and industrial)
Sandy Hook Fireplace Goods
American Windshield & Specialty Co The
881 Boston Post Road Milford
John P Smith Co The (screens) 423-33 Chapel
New Haven Manning Maxwell & Moore Inc Stratford
Pratt & Whitney Co Inc (Precision Measurement all types)

Gears
Mitrametric Co The (blanked fine pitch)

Torrington

Stanley P Rockwell Co Inc The 296 Homestead Ave

Hartford

Dextone Company

Fireproof Floor Joists New Haven

Heat-Treating Equipment Barnes Co The Wallace Div Associated Spring Corp Bristol Bauer & Company Inc Hartford	Insulated Wire & Cable General Electric Company (for residential commercial and industrial applications) Bridgeport	Lathes—Vertical Turret Bullard Company The (single spindle) Bridgeport
Rolock Inc (Retorts, Muffles, etc.) Fairfield Stanley P Rockwell Co Inc The (commercial)	Kerite Company The Seymour	Christie Plating Co The . Grotor
296 Homestead Ave Hartford	Insulated Wire & Cable Machinery Davis Electric Company Wallingford	Leather
Heat Treating Fixtures tolock Inc (Trays, Baskets, etc.) Viretex Mfg Co Inc Fairfield Bridgeport	Instruments Bristol Company The Waterbury Manning Maxwell & Moore Inc Stratford	Norwich Leather Co Norwich Herman Roser & Sons Inc (Genuine Pigskin Glastonbury
Heat Treating Salts and Compounds Mitchell-Bradford Chemical Co Bridgeport	Pratt & Whitney Co Inc (Precision Measuring) West Hartford Integrators	Leather Dog Furnishings Andrew B Hendryx Co The New Have: The Smith-Worthington Saddlery Co Hartfor
Heaters-Electric General Electric Company Bridgeport	Reflectone Corporation The Stamford Interval Timers	Leather Goods Trimmings G E Prentice Mfg Co The Kensington
Heating and Cooling Colls G & O Manufacturing Co New Haven	Lux Clock Manufacturing Company Waterbury Rhodes Inc M H Hartford	Leather, Mechanical Auburn Manufacturing Company The (paci
Heating Elements Hartford Element Co Hartford	Case Brothers Inc Manchester Japanning	ings, cubs, washers, etc) Middletow
Heavy Chemicals Naugatuck Chemical Division United States	H Sessions & Son Bristol	Lehman Brothers Inc (designers, engraver lithographers) New Have
Naugatuck Chemical Division United States Rubber Co (sulphuric nitric and muriatic acids and aniline oil)	Linley Brothers Company Moore Special Tool Co (Moore) Pratt & Whitney Co Inc Bridgeport Bridgeport West Hartford	Levels—Machinist's Precision Bullard Company The Bridgepo Lighting Accessories—Flourescent
Heavy Machinery Smith & Winchester Mfg Co The South Windham	Jigs, Fixtures & Gages Federal Machine & Tool Co Bristol	General Electric Company Bridgepo
Hex-Socket Screws Allen Manufacturing Company The Hartford	Jig Grinder Moore Special Tool Co (Moore) Bridgeport	Fullerton Manufacturing Corp Norwa Miller Co The (Miller, Duplexalite, Ivanho Meride
Bristol Company The Waterbury Holo-Krome Screw Corp The West Hartford	Relier Machines Pratt & Whitney Co Inc West Hartford	Essex Mills Inc Essex
High Frequency Alternators Electric Specialty Co Stamford	Sargent & Company Yale & Towne Mfg Co The New Haven Stamford	New England Lime Company Cana
Highway Guard Rail Hardware Malleable Iron Fittings Co Branford	J & J Cash Inc (Woven) South Norwalk Naugatuck Chemical Division United States	Lipstick Cases Scovill Manufacturing Company Waterbu
Homer D Bronson Company Beacon Falls	Rubber Co (for rubber articles) Naugatuck Label Moisteners Better Packages Inc ("Counterboy"—"Packer")	Bridgeport Metal Goods Mfg Co Plume & Atwood Manufacturing Co Waterbu
Hobs and Hobbings ABA Tool & Die Co Manchester Pratt & Whitney Co Inc (Die and Thread mill-	Shelton Laboratory Equipment	O'Toole & Sons Inc T Stamfo
ing) West Hartford Hoists and Trolleys	Eastern Industries Inc New Haven Laboratory Supplies	Lithographing Kellogg & Bulkeley A Division of Connectic Printers Inc Hartfo
Union Mfg Company New Britain Hose Fittings	Macalaster Bicknell Company New Haven	Lehman Brothers Inc A D Steinbach & Sons New Hav
Scovill Manufacturing Company Waterbury Hose—Flexible Metallic	American Fabrics Company The Bridgeport Wilcox Lace Corporation Middletown	Yale & Towne Mfg Co The Stamfo
American Brass Co American Metal Hose Branch Waterbury	Wilcox Lace Corporation The Middletown	Sargent & Company Yale & Towne Mfg Co The New Hav Stamfo
Hawle Mfg Co The (So-Lo Grip Tabs) Bridgeport	Lacquers & Synthetic Enamels Chemical Coatings Corporation Rocky Hill I-Sis Chemicals Inc Stamford	Locks—Cabinet Excelsior Hardware Co The Yale & Towne Mfg Co The Stamfo
Hydraulic Brake Fluids Eis Manufacturing Co Middletown	A W Flint Co Ladders 196 Chapel St New Haven	Yale & Towne Mfg Co The Stamfo
Roehr Products Company Waterbury	Laminated Metal Bridgeport Brass Company Bridgeport	Locks—Suitcase and Trimmings Excelsior Hardware Co The Stamfo
Ice Buckets B F Goodrich Sponge Products Division Shelton	Lamps Plume & Atwood Mfg Co The (metal oil)	Locks—Trunk Excelsior Hardware Co The Stamfe Yale & Towne Mfg Co The Stamfe
Impregnating American Metaseal Inc (metal, wood, etc.) Hamden	Waterbury Lampholders—Incandescent and Flourescent	Locks—Zipper Excelsior Hardware Co The Stamfo
Industrial Chrome Plating Mirror Polishing & Buffing Co Waterbury	General Electric Company Bridgeport Lamp Shades Verplex Company The Essex	Wiremold Company The Hartfe
Industrial Displays Sansone Co S Frederick (Designers Builders and Counselors) Short Beach	Lanterns—Battery Operated Electrical Div Olin Mathieson Chemical Corp	Lubricants—High Pressure Alpha Molykote Corp The Stamfo
Industrial Finishes Chemical Coatings Corporation Rocky Hill	New Haven Lathes—Hydra Feed Bullard Co The (automatic tracer on multiple	Lubricants—Extreme Temperatures Alpha Molykote Corp The Stamfo Lubricating System—Mist
Cycle-Flo Company The Milford	tool) Bridgeport Lathes—Man-Au-Trol	Thompson & Son Co The Henry G New Hav
Waterman Pen Company Inc Seymour	Bullard Company The (single spindle-auto- matic) Bridgeport	Lumber & Millwork Products City Lumber Co of Bridgeport Inc Bridgep
American Cyanamid Company Waterbury	Lathes—Mult-Au-Matic Bullard Company The (vertical multi-spindle-indexing type) Bridgeport	Machetes Collins Company The Collinsv
Wassell Organization Inc Westport	Lathes—Toolroom and Automatic Pratt & Whitney Co Inc West Hartford	Smith & Winchester Mfg Co The South Windh

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M ADE N CONNECTI

Machine Tool Designers New Britain R & S Company

Machine Tools Bullard Company The
Farrel-Birmingham Company Inc
Pratt & Whitney Co Inc
Producto Machine Company The
Bridgeport
Bridgeport

Ranthin Engineering Co
Farrel-Birmingham Company Inc
Fenn Manufacturing Company

The Ansonia
Operation

Newington Penn Mahulatan Newington parts)
Hartford Special Machinery Co The (contract work only)
Joma Tool Co (small assemblies & parts)
Wolcott

National Sheradizing & Machine Co (joh) Hartford Parker-Hartford Corporation Hartford Swan Tool & Machine Co The Hartford Torrington Manufacturing Co The (special roll-ing mill machinery) Torrington

Fenn Manufacturing Company The (special)
Hallden Machine Company The (mill)
Thomaston Torrington Manufacturing Co The (mill)
Torrington

Banthin built)

Machinery—Automatic Engineering Company (no (new and re-Bridgeport

Machinery—Bolt and Nut
Waterbury Farrel Foundry & Machine Co The
Waterbury

Machinery—Cold Heading
Waterbury Farrel Foundry & Machine Co The
Waterbury

Machinery Dealers & Rebuilders ik Brothers New Have Botwinik Brothers J L Lucas and Son State Machinery Co Inc Fairfield New Haven

Machinery-Extruding Standard Machinery Co The Mystic

Machinery-Metal-Working
Newington Fenn Mig Co The
Waterbury Farrel Foundry & Machine Co T
Waterlu Pratt & Whitney Co Inc

Machinery—Nut
Waterbury Farrel Foundry & Machine Co The
(forming and tapping) Waterbury

Machinery—Screw and Rivet
Waterbury Farrel Foundry & Machine Co The
Waterbury

Machinery-Wire Drawing
Newington
Nachine Co The Fenn Mfg Co The
Waterbury Farrel Foundry & Machine Co The
Waterbury

Machinery-Wire Straightening
Mettler Machine Tool Inc New Haven

Machinery-Wire Straightening and Cutting Mettler Machine Tool, Inc. New Have

Machines
Campbell Machine Div American Chain & Cable
Co Inc (cutting & nibbling) Bridgeport
Coulter & McKenzle Machine Co The (special,
new development engineering design and conetruction) The Machine Westerbury
Westerbury Patent Button Company The Waterbury

Machines Automatic Globe Tapping Machine Co Bridgeport
A H Nilson Mach Co The (Special) Bridgeport

Machines—Automatic Chucking
Bullard Company The Machine Division
New Britain-Gridley Machine Division
The New Britain Machine Co (multiple
spindle and double end) New Britain
Pratt & Whitney Co Inc (Potter & Johnson)
West Hartford

Machines—Brushing
Fuller Brush Co The Hartford

Machines—Contin-U-Matic
Bullard Company The (verticle multi-spindle-continuous turning)
Bridgene Bridgeport

Machines-Draw Benches
Fenn Manufacturing Company The Newlington

Machines-Forming
A H Nilson Mach Co The (four-slide wire and ribbon stock)

Machines-Paper Ruling John McAdams & Sons Inc Norwalk

Machines-Precision Boring
New Britain-Gridley Machine Division
The New Britain Machine Co New Britain

Machines-Rolling Fenn Manufacturing Company The

Machines—Slotting
Waterbury Farrel Foundry & Machine Co The
(screw head) Waterbury

Machines-Spacing Table
Bullard Company The Bridgeport

Machines—Special Fenn Mfg Co The Fuller Brush Co The Newington

Machines-Swaging
Newington Fenn Manufacturing Company

Machines—Thread Rolling
Hartford Special Machinery Co The Hartford
Peterson Division, Mettler Machine Tool, Inc.
New Haven
Waterbury Farrel Foundry & Machine Co The
Waterbury

Machines—Turks Head Fenn Manufacturing Company The Newington

Machines-Wire Drawing
Company The Newington Fenn Manufacturing Company

Machining—Horizontal Boring
Tucker Machine Co North Haven

Manganese Bronze Ingot Whipple and Choate Company Bridgeport

W E Bassett Company The

Marine Engines
Kilborn-Sauer Company (running lights and searchlights)
Fairfield

Marine Equipment
Wilcox-Crittenden Div North & Judd Mfg Co
Middletown

Marine Reserve Gears
Snow-Nabstedt Gear Corp The New Haven

Marking Devices Cooney Engraving Co Branford Hoggson & Pettis Mfg Co The New Haven Parker-Hartford Corporation (steel) Hartford

Marking Tools
Parker-Hartford Corporation Hartford

Materials Handling Hayes-Te Equipment Corp Connecticut Conveyor Division (Conn-Veyor) Unionville
Parsons Co Inc W A (tote pans) Durham

Mats-News Lockwood Sons Inc Wm H Hartford

Waterbury Mattress Co Waterbury

Metal Boxes
Parsons Co Inc W A (tool kits) Durham

Metal Boxes and Displays

Durham Mfg Co The (Designing & Mfg to
customers' specifications)

Merriam Mfg Co (Bond, Security, Cash, Utility, Personal Files, Drawer Safes, Customblit
containers and displays)

Middletown Mfg Co

Middletown

Contained Mfg Co
Middletown Mfg Co

Metal Cleaners

Apothecaries Hall Company Division
The Hubbard Hall Chemical Company
Waterbury
New Haven
Waterbury

Metal Finishes New Haven Mitchell-Bradford Chemical Co Bridgeport

Metal Finishing Hartford Industrial Finishing Co National Sheradizing & Machine Waterbury Plating Company Hartford Hartford Waterbury

Metal Formings Master Engineering Company Stanley Pressed Metal West Cheshire

Leed Co The H A Hamden

H C Cook Co The 32 Be 32 Beaver St Ansonia

Metal Products—Stampings
American Brass Company The Waterbury
Plume & Atwood Manufacturing Co
Thomaston Kensington Bristol Prentice Mfg Co The G E J H Sessions & Son Scovill Manufacturing Company der) (Made-to-Or-Waterbury 91 New Britain Stanley Pressed Metal

Metal Specialties Excelsion Hardware Co The Stamford

Metal Spinning
Moseley Metal Crafts Inc West Hartford

Metal Stampings
American Brass Company The
Better Formed Metals Ine
Doo'Val Tool & Mig Inc The
Excelsior Hardware Co The
Greist Mig Co The
Il C Cook Co The
Il C Cook Co The
Il C Cook Co The
Il C Took Co The
Il J H Sessions & Son
Patent Button Co The
G E Prentice Mfg Co The
Plume & Atwood Mfg Co The
Saling Manufacturing Company
Stanley Pressed Metal
Swan Tool & Machine Co The
Terryville Manufacturing Co
Verplex Company The (Contract)
Waterbury Lock & Specialty Co Bristol
Waterbury
Kensington
Thomaston
Unionville
New Britain
Hartford Terryville Essex Milford

Meters-Gas Sprague Meter Company Bridgeport

Rhodes Inc M H Hartford

Microfilming
American Microfilming Service Co.
New Haven

Micro-Projectors
Kalart Co Inc The Plainville

Milk Bottle Carriers
L Co The 423-33 Chapel St
New Haven John P Smith Co The

Mill Machinery Torrington Manufacturing Company The Torrington

Milling Machines
Pratt & Whitney Co Inc (Keller Tracer—
Controlled Milling Machines) West Hartford
Rowbottom Machine Company Inc (can)
Waterbury

Mill Products Scovill Manufacturing Company (aluminum, brass, bronze, nickel silver—sheet, rod, wire, tube) Waterbury

Wilcox-Crittenden Div North & Judd Mfg Co Middletown

Millwork Hartford Builders Finish Co Hartford Miniature Precision Connectors
Stamford

Gorn Electric Co Minute Minders
Lux Clock Mfg Co The

Waterbury

Mirror Rosettes and Hangers Waterbury Companies Inc Waterbury

Mixers-Liquid
Alsop Engineering Corporation Milldale

Mixing Equipment Eastern Industries Inc New Haven
Gabb Special Products Inc Windsor Locks

Model Work

B & N Tool & Engineering Co (instruments and Oakville timing devices)

Fuller Brush Co The Mops Hartford (Advt.)

MADEIN ONNECTICUT

Motion Picture Equipment
Kalart Co Inc The (16mm Sound and Silent
Projectors, Film Splicers & Rewinders)
Plainville Otis Woven Awning Stripes
The Falls Company
Norwich Ovens -Electric Bauer & Company Inc Motor Control Centers
Distribution Assemblies Department, General
Electric Co Plainville Packaging-Engineering
Commerce Packaging Corp
National Export Corp. (Military and Commercial—equipped for domestic and export packaging, canning, crating and shipping)
New Haven Motor-Generator Sets Electric Specialty Co Stamford Motor Overload Protectors
Sperry Products Inc Danbury Packaging & Packing Commerce Packaging Corp Mercer & Stewart Co The Stamford Motors-Electric Timing Cramer Controls Corporation The Centerbrook Packing Auburn Manufacturing Company The (leather, rubber, asbestos, fibre) Middletown Raybestos Division of Raybestos-Manhattan Inc (Asbestos and Rubber Sheet) Bridgeport Tsingris Dle Cutting Corp. (from all waterbury Waterbury Motors-Synchrono Cramer Controls Corporation T Centerbrook Stamford Electric Specialty Co Butterfield Inc T F
Patent Button Co The
Waterbury Companies Inc
Watertown Mfg Co The
Waterbury Waterbury
Waterbury Waterbury
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Waterbury
Waterbury Padlocks Sargent & Company

Waterbury Lock & Specialty Co The Milford
Yale & Towne Mfg Co Inc Stamford Mouldings
Himmel Brothers Co The (architectural, metal and store front)

Hamden Pads-Office The Baker Goodyear Company Branford Paints
Tredennick Paint Manufacturing Co The Meriden Moulds ABA Tool & Die Co Hoggson & Pettis Mfg Co The (steel) 114 Brewery St Manchester Paints and Enamels
Staminate Corp The New Haven New Haven Panelboards—Lighting and Distribution
Distribution Assemblies Department, General
Electric Co Plainville Cooney Engraving Co
Seton Name Plate Co (metal & plastic name plates and identification tags)

Name Plates

Branford
plastic name
New Haven Leed Co The H A Napper Clothing
Standard Card Clothing Co The (for textile mills)
Stafford Springs Hamden Moore Special Tool Co (crush wheel dresser)
Bridgeport Nettings Middletown Wilcox Lace Corp The Paperboard
Continental Can Co., Boxboard and
Folding Carton Division Montville
Federal Paper Board Co Inc
Montville, New Haven Versailles
Robertson Paper Box Co
Montville Newspaper Mats Lockwood Sons Inc Wm H Hartford Nickel Anodes
Apothecaries Hall Company Division
The Hubbard Hall Chemical Compa Company Waterbury Paper Box—Partitions
American Rondo Corporation
(specialty partitions) Nickel Silver
American Brass Company The
Bridgeport Brass Company
Plume & Atwood Mfg Co The
Seymour Mfg Co The
Waterbury Rolling Mills Inc
Various Chemicals Hamden Paper Boxes
Atlantic Carton Corp (folding) Norwich
National Folding Box Co Div Federal Paper
Board Co Inc (folding) New Haven & Versaille Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp (sheet, strip)
New Haven Mills Inc H J Robertson Paper Box Co (folding) Bristo Montville Paper Boxes—Folding and Setup
Bridgeport Paper Box Company
M Backers' Sons Inc

Bridgeport
Wallingford Nickel Silver Ingot Whipple and Choate Company The Bridgeport Night Latches Sargent & Company Yale & Towne Mfg Co Inc New Haven Paper Clips H C Cook Co The (steel) 32 Beaver St Ansonia Stamford Non-ferrous Metal Castings Miller Company The Paper Mill Machinery Farrel-Birmingham Company Inc Meriden Ansonia Paper Tubes and Cores
Sonoco Products Co (Climax-Lowell) Div
Mystic Nuts, Bolts and Washers Clark Brothers Bolt Co Milldale Office Equipment Pitney-Bowes Inc
Underwood Corporation Bridgeport & Hartford
Wassell Organization Inc
Westport Parachute Cord Essex Mills Inc Essex Parallel Tubes
Sonoco Products Co (Climax-Lowell) Div Mystic Offset Printing
Kellogg & Bulkeley A Division of Connecticut
Printers Inc Hartford Rhodes Inc M H Oll Burners Miller Company The (domestic)
Peabody Engineering Corp (Mechanical and/or
Steam Atomizer)
Silent Glow Oil Burner Corp The
Hartford Hartford Scovill Manufacturing Company (ammunition, electric instrument, electrical appliance, fountain pen, instrument, lighting fixture, ordance, etc.—blanked, stamped, formed, drawn, re-drawn, forged, screw machined, headed, pointed, finished)

Waterbury Hartford Norwalk Tank Co The (550 to 30M gals, underwriters above and under ground)

South Norwalk Hartford Pattern-Makers Farrel-Birmingham Company Inc Ansonia Anderson Oil Co Inc F E Smith & Winchester Mfg Co The

Portland

Open Knife Switches and Accessories ircuit Protective Devices Dept., General Electric Co.

Plainville

Optical Cores & Ingots
Plume & Atwood Mfg Co The Thomaston

South Windham

Bridgeport

New Haven

Bridgeport Metal Goods Mfg Co

Pet Furnishings Andrew B Hendrix Co The

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Phosphor Bronze

American Brass Company The
Bridgeport Brass Company
Miller Company The (sheets, strips, rolls)
Meriden
Seymour Seymour Mfg Co The Seymour Waterbury Rolling Mills Inc (sheets, strips, rolls) Waterbury Western Brass Mills Div Olin Mathleson Chemical Corp (sheets, strip) New Haven Phosphor Bronze Ingots
Whipple and Choate Company The Bridgeport Photo Engraving
Dowd Wyllie & Olson Inc
Wilcox Photo Engraving Co Inc
New Haven Photoflash Batteries Olin Mathieson Chemical Corp New Haven Electrical Div Photographic Equipment
Electrical Div Olin Mathieson Chemical Corp
New Haven
Plainville Piano Repairs
Pratt Read & Co Inc (keys and action)
Ivoryton Pratt Read & Co (keys and and actions, backs, Ivoryton CEM Company ("Spirol") Danielson Pin Up Lamps Verplex Company The Essex Pipe
American Brass Co The (brass and copper)
Waterbury Bridgeport Brass Co (brass and copper) Chase Brass & Copper Co (red brass and copper)
Waterbury Howard Co (cement well and chimney)
New Haven Pipe Fittings Corley Co Inc Malleable Iron Fittings Co Plainville Pipe Plugs Holo-Krome Screw Corporation The (counter-West Hartford Pipe Piugs-Socketed Holo-Krome Screw Corp The West Hartford Pistols & Revolvers
Colt's Patent Fire Arms Mfg Co Inc Hartford Plastic Coatings
Bischoff Chemical Corporation (Peelable Plastic
Ivoryton Plastic Bottles Plax Corporation Bloomfield Plastic Buttons Co The West Willington Waterbury Frank Parlzek Manufacturing Patent Button Co The Plastic Engraving Salisbury Products Inc Lakeville Plastic Extruders
Jessall Plastics, Inc. Kensington Plastic Extruders
Jessall Plastics Inc Kensington Plastic Fabrication abricating Corporation Humphrey Fabricating Co Salisbury Products Inc Plastic Film & Sheet Materials
Gilman Brothers Co The
Plax Corporation Ble Gilman Bloomfield Comco Inc Div of Enthone Inc N New Haven Plastic Molders
Plastic Molding Corporation
Plastic Molding
Butterfield Inc T F
U S Plastic Molding Corporation Sandy Hook Naugatuck Wallingford Plastic-Moulders Conn Plastics Waterbury Waterbury Companies Inc Watertown Mfg Co The Plastic Pipe and Fittings
Comco Inc Div of Enthone Inc New Haven Plastic Printing Plates Lockwood Sons Inc Wm H Plastic Wire Coating Materials Electronic Rubber Co S Stamford **Plastics** B F Goodrich Sponge Products Division Shelton Naugatuck Chemical Division United States Rubber Co Naugatuck (Advt.)

Plastics Machinery Farrel-Birmingham Company Inc Ansonia	Pressure Vessels Norwalk Tank Co Inc The (unfired to ASME Code Par U 69-70) South Norwalk	Refractories Howard Company Mullite Works Refractories Div H K Porter
Plastics-Moulds & Dies Crown Tool & Die Co Inc Bridgeport	Whitlock Manufacturing Co The Hartford	Co Inc Shelton
Plasticrete Bloc Plasticrete Corp Hamden	Allied Printing Services Inc Bussmann Press Inc New Haven	Dunham-Bush Inc West Hartford Regulators
Platers Acme Chromium Plating Co New Haven	Case Lockwood & Brainard A Division of Con- necticut Printers Inc Hartford Finlay Brothers Hartford	Norwalk Valve Company (for gas and air) South Norwalk
Christie Plating Co Groton City Plating Works Bridgeport Catent Button Co The Waterbury	Heminway Corporation The Waterbury Hildreth Press Bristol Hunter Press Hartford	Research & Development Raymond Engineering Laboratories (Electro-Mechanical) Middletown
Vater Plating Company hromium Process Company The Plating only) Waterbury (Chromium Shelton	Lehman Brothers Inc Taylor & Greenough Co The T B Simonds Inc A D Steinbach & Sons New Haven Wethersfield Hartford New Haven	Resistance Wire C O Jeliff Mfg Co The (nickel chromium, copper nickel, iron chromium, aluminum) Southport
pothecaries Hall Company Waterbury	The Walker-Rackliff Company New Haven Printing Machinery	Kanthal Corporation The Stamford
omco Inc Div of Enthone Inc ea Manufacturing Co The Waterbury UacDermid Incorporated Waterbury	Banthin Engineering Co (automatic) Thomas W Hall Company Bridgeport Stamford	American Optical Company Safety Products Division Putnam
Platers Metal Plume & Atwood Mfg Co The Thomaston	Printing Plates Lockwood Sons Inc Wm H Hartford	Resuscitators Cycle-Flo Company The Milford
Christie Plating Co The (including lead plating) Groton	Printing Rollers Chambers-Storck Company Inc The (engraved) Norwich	Hartford Steel Ball Co The (bicycle & auto- motive) Hartford
City Plating Works Inc Bridgeport Superior Plating Co Bridgeport Sec-Plate Inc Windsor Locks	Printing-Silk Screen Ad-Craft Displays, Inc. Bloomfield	Gilman Brothers Company The Gilman
Plating Processes and Supplies	Production Control Equipment	Grant Mfg & Machine Co The Bridgeport
Plumbers' Brass Goods Bridgeport Brass Co Bridgeport	Ripley Company Inc Wassell Organization Inc Middletown Westport	Linley Brothers Company Ripley Company Inc H P Townsend Manufacturing Co The
Keeney Mfg Co The (special bends) Newington Waterbury	Profilers Pratt & Whitney Co Inc West Hartford	Limwood
Scovill Manufacturing Company Waterbury 48 Plumbing Specialties Riadon Manufacturing Co John M Russell Div Naugatuck	Kalart Co Inc The (16mm Sound and Silent Projectors)	Rivets Clark Brothers Bolt Co Plume & Atwood Mfg Co The Raybestos Div of Raybestos-Manhattan In: The (brass and aluminum tubular and solid cop-
Pole Line Hardware Maileable Iron Fittings Co Branford	Propellers—Aircraft Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	per) Bridgeport Raybestos Div of Raybestos-Manhattan Inc The (iron) Bridgeport
Police Equipment The Smith-Worthington Saddlery Co Hartford	Windsor Locks Protective Coatings Bischoff Chemical Corporation (Peelable Plastic	American Brass Company The (copper, brass, bronze) Waterbury
Mirror Polishing & Buffing Co Waterbury	Coatings) Ivoryton Harrison Company The A S (Waxes) South Norwalk	Bridgeport Brass Company Bridgeport Bristol Brass Corp The (brass and bronze) Bristol
Poly Chokes Poly Choke Company The (a shotgun choking device) East Hartford	O'Toole & Sons Inc The Stamford	Scovill Manufacturing Company (aluminum, brass, bronze, etc.) Waterbury Rollers—Bituminous Paving
Pitney Bowes Inc Stamford	Sumo Pumps Inc (Deep-well electro-submer- sible) Stamford	Gabb Special Products Div E Horton & Son Company Windsor Locks
Potentiometers-Electronic Bristol Company The Waterbury	Yale & Towne Mfg Co The Stamford Pumps—Small Industrial Eastern Industries Inc New Haven	Roller Skate Wheels Raybestos Division of Raybestos-Manhattan Inc Bridgeport
Precision Machine Tool Spindles Whitnon Manufacturing Co (for milling, grinding, boring & drilling) Farmington	Punches Hoggson & Pettis Mfg Co The (ticket & cloth) 141 Brewery St New Haven	Arms and Ammunition Div Olin Mathieson Chemical Corp New Haven
Precision Manufacturing Newton Co The (aircraft parts) Manchester Precision Revolving Machinery	Putty Softeners-Electrical Fletcher Terry Co The Box 415 Forestville	Farrel-Birningham Company Inc Fenn Mfg Co The Precision Methods & Machines Inc
Whitnon Manufacturing Co Farmington Precision Sheet Metal Fabrication	Pyrometers Bristol Co The (recording and controlling) Waterbury	Waterbury Waterbury Farrel Foundry & Machine Co The Waterbury
Milford Fabricating Co Milford Precision Springs & Wire Forms	Radiation—Finned Copper Bush Manufacturing Co West Hartford	Rolls Farrel-Birmingham Company Inc (Chilled and
Rowley Spring Co Inc The Bristol Pre-Cut Cottages Federal Homes Corporation Canaan	G & O Manufacturing Company The New Haven Vulcan Radiator Co The (steel and copper) Hartford	Alloy Iron, Steel) Ansonia Rotary Files
Pre-Engineered Homes Federal Homes Corporation Canaan	Radiators—Engine Cooling G & O Manufacturing Co New Haven	Atrax Company The (carbide) Newington Routers Atrax Company The (solid earbide) Newington
Premium Specialties Waterbury Companies Inc Waterbury	Radiographic Inspection State Testing Laboratory Bridgeport	Rubber-Cellular B F Goodrich Sponge Products Division Shelton
Preservatives—Wood, Rope, Fabric Darworth Incorporated ("Cuprinol")	Ratchet Offset Screw Driver Chapman Co J W Durham	Rubber Chemicals Naugatuck Chemical Division United States Rubber Co Naugatuck
("Cellu-san") Simsbury	Rayon Staple Fiber Hartford Rayon Corp The Rocky Hill	Stamford Rubber Supply Co The Vulcanized Vegetable Oils) ("Factice' Stamford
Case & Risley Press Paper Co (genuine) Oneco	Reamers Atrax Company The (solid carbide) Newington Pratt & Whitney Co Inc (All types) West Hartford	Duro-Gloss Rubber Co The New Haven
Press Papers Case Brothers Inc Manchester	Record Equipment	Goodyear Rubber Co The Middletown
Farrel-Birmingham Company Inc (Hydraulic)	Wassell Organization Inc (filing equipment) Westport Recorders	Seamless Rubber Company The New Haver
Presses—Power Pneumatic Applications Co The (modernization of presses through conversion to Wichita Air	Bristol Co The (automatic controllers, tempera- ture, pressure, flow, humidity) Waterbury	Rubber Latex Compounds and Dispersions
Clutch operation Simsbury Waterbury Farrel Foundry & Machine Co The Waterbury	Farrel-Birmingham Company Inc Snow-Nabstedt Gear Corp The New Haven	Rubber Co (coating, impregnating and adhesive compounds) Naugatuc (Advt.)

Rubber-Moided Specialties
Airex Rubber Prod Corp
Canfield Co The H O
Seamless Rubber Company The Portland Bridgeport New Haven Rubber Products
Airex Rubber Prod Corp Portland Rubber Printing Plates
ADS Inc Div CSW Plastic Types Inc
Lockwood Sons Inc Wm H
Hartford Rubber Products—Mechanical
American Felt Co
Auburn Manufacturing Company
Gaskets, molded parts)
Canfield Co The H O
Seamless Rubber Company
The
Tsingris Die Cutting Corp
Grakkets
Gervellen Bridgeport New Haven (die cutting, Waterbury Rubber—Reclaimed Naugatuck Chemical Division U Rubber Co United States Naugatuck Rubbers
Naugatuck Chemical Div U S Rubber Co
(special synthetic) Naugatuck John P Smith Co The 4 423-33 Chapel St New Haven Anderson Oil Co Inc F E
Enthone Inc Portland New Haven Rust Removers New Haven Enthone Inc Saddlery
The Smith-Worthington Saddlery Co Hartford Safety Belts Middletown Russell Mfg Co American Optical Company Safety Products
Division Safety Fuses
Ensign-Bickford Co The (mining & detonating) Safety Gloves and Mittens American Optical Company Safety Division Putnam American Division Safety Goggles Safety Products Putnam Safety Switches
Circuit Protective Devices Dept., General Electric Co. Capewell Mfg Co The Henry G
Thompson & Son Co The Henry G
New Haven Capewell Manufacturing Company Hartford Saws, Band, Metal Cutting
Atlantic Saw Mfg Co
Capewell Manufacturing Co The
Thompson & Son Co The Henry G New Haven Saws—Hole Capewell Manufacturing Co The Thompson & Son Co The Henry G Hartford New Haven Acme Shear Company The Hartford Wire Works Co The (Windows, Doors Hartford Screw Caps
Weimann Bros Mfg Co The (small for bottles)
Derby H P Townsend Mfg Company The Screw Machine Products

Accurate Screw Products Inc (B & S Swiss & Davenports)

Apex Tool Co Inc The Bridgeport

Auto Electric Screw Machine Co Inc

Bridgeport

Bridgeport

West Cheshire Elmwood Consolidated Industries
Eastern Machine Screw Corp
Truman & Barclay Sts
Franklin Screw Products Inc
Franklin Screw Machine Co The
Capacity)
Garibwalt Mfg Co A E (up to and incl ½")
Greist Mfg Co The (up to 1½" apacity)
Greist Mfg Co The (up to 1½" apacity)
Franklin Screw Machine Co The
Capacity
Greist Mfg Co The (up to 1½" apacity)
Franklin Screw Machine Co The
Capacity
Franklin Screw Machine Co The
Capacity
Franklin Screw Machine Co The
Capacity
Franklin Screw Machine
Franklin Screw Haven
Franklin Screw Machine
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Rubber-Latex Foam
B F Goodrich Sponge Products Division Shelton

Rubber Mill Machinery Farrel-Birmingham Company Inc

Screw Machine Products (Cont.)

Humason Mfg Co The Forestville
Independent Screw Machine Products
(up to an incl 1½" capacity)

Junior Screw Machine Products Inc
West Haven
Wethersfield
Lowe Mfg Co The Main Screw Machine Products (davenport & Wethersfield (davenport & Waterbury National Automatic Products Company The Berlin Nelson's Screw Machine Products New Britain Machine Company The Plantsville New Britain Machine Company The
New Britain
New Haven Screw Machine Products Inc
(up to 1½" capacity)
Newton Screw Machine Products Co
Olson Brothers Company (up to ½" capacity)
Plainville

Clean & Sanc B. B. Olson & Sons R P
Plume & Atwood Mfg Co The
Scovill Manufacturing Company
United Screw Machine Co
Waterbury Machine Tools & Thomaston
Waterbury Machine Tools & Products Co
(Brown & Sharpe and Davenport) Waterbury Screw Machine Tools
American Cam Company Inc (Circular Form American Cam Company Harttord
Tools)
Pratt & Whitney Co Inc (Reamers, Taps, Dies,
Blades and Knurls)
West Hartford
Somma Tool Co (precision circular form tools)
Waterbury Allen Manufacturing Company The Hartford
American Screw Company Willimantic
Atlantic Screw Works (wood) Hartford
Bristol Company The (socket set and socket cap
Waterbury
Screws) 2016 Co. Waterbury
Mildale Social Maguacturing Company
Superior Manufacturing Co The
Waterbury Officers West Hartford
Waterbury 91
Superior Manufacturing Co The
Winsted Allen Manufacturing Company The Hartford Bristol Co The Holo-Krome Screw Corp The Waterbury West Hartford Sealing Tape Machines
Better Packages Inc ("Counterboy," "Tape-shooter," "Big Inch") Shelton Russell Mfg Co (for oven doors and fire bulkheads) Middletown Service Entrance Equipment
Circuit Protective Devices Dept., General Electric Co.
Plainville tric Co. Sewing Machines
Greist Mfg Co The (Sewing Machine attachments)
503 Blake St New Haven
Singer Manufacturing Company The (industrial)
Bridgeport Gorn Electric Co Inc (electric knife and Stamford J B Williams Co The Glastonbury Acme Shear Co The (household) Bridgeport Sheet Metal Products
American Brass Co The (brass and copper)
Merriam Mfg Co (security boxes, fitted tool boxes, tackle boxes, displays)
Parsons Co Inc W A (fabricators)
Plume & Atwood Mfg Co The Thomaston United Manufacturing Co Division of The W L Maxson Corp Sheet Metal Stampings
American Brass Company The
American Buckle Co The
Doo'Val Tool & Mig Inc The
J H Sessions & Son
Patent Button Co The
Plume & Atwood Mig Co The
Scovill Manufacturing Company
brass, bronze, copper, nickel silver, steel and other metals and alloys)

Waterbury Dolan Steel Company Inc Bridgeport Victors Brass Foundry Inc Guilford Victors Brass Foundry Inc

Guilford

Shells
Scoville Manufacturing Company (aluminum, brass, bronze, copper, nickel silver—drawn, stamped—electric socket, screw) Waterbury
Wolcott Tool and Manufacturing Company Inc
Waterbury

Showcase Lighting Equipment
Wiremold Company The Hartford

H C Cook Co The (for card files) 32 Beaver St Ansonia Signs
Berger Sign Co (neon electric-porcelain enamelstainless steel)
Hartford
Ad-Craft Displays, Inc. (all types, quantity
only)
Bloomfield Silk Screen Process Printing
Ad-Craft Displays, Inc.
Norton Co R H
Sirocco Screen prints
Stifel & Kufta Inc
New Britain New Haven New Haven New Britain Silk Screening on Metal
Ad-Craft Displays, Inc.
Bloomfield
Merriam Mfg Co (Displays and Specialties, to
order) Simulators Reflectone Corporation The Sintered Metal Products
Raybestos Division of Raybestos-Manhattan Sizing and Finishing Compounds
American Cyanamid Company Wa Waterbury Sildo Fasteners
G E Prentice Mfg Co The
North & Judd Manufacturing Co
Scovill Manufacturing Company Kensington New Britain (GRIPPER Waterbury zippers) Smoke Stacks Bigelow Company The (steel) Norwalk Tank Co The New Haven South Norwalk Snap Fasteners
Scovill Manufacturing Company (GRIPPER Waterbury Soap Soap
J B Williams Co The (industrial soaps, toilet soaps, shaving soaps)

Waterbury
Glastonbury Special Machinery
Banthin Engineering Company (complete and/or parts)
Boesch Mfg Co Inc
Boesch Mfg Co Inc
Co
Danbury
Ansonia
Bristol
Newington Banthin Engineering Company (complete and/or parts)
Boesch Mig Co Inc
Farrel-Birmingham Company Inc
Federal Machine & Tool Co
Fenn Mig Co The
Hartford Special Machinery Co The
Hartford Special Machinery Co The
National Sheradizing & Machine Co
& stock shells for rubber industry
Tucker Machine Co
Tuc Special Parts Fenn Mig Co The Newington Greist Mig Co The (small machines, especially precision stampings)

J H Sessions & Son

Bristol Spinnings
Gray Manufacturing Company The Hartford Spline Milling Machines
Townsend Mfg Co The H P Elmwood Sponge Rubber
B F Goodrich Sponge Products Division Shelton Spotwelding
Spotwelders Inc (aluminum, steel, magnesium, titanium & alloys)
Stratford Spray Painting Equipment and Supplies
Lea Manufacturing Co The Waterbury Spring Coiling Machines
Torrington Manufacturing Co The Torrington Spring Presses
Townsend Mfg Co The H P Elmwood Spring Units
Owen Silent Spring Division American Chain
& Cable Company Inc Bridgeport Spring Washers
Barnes Co The Wallace Div Associated Spring
Corp Bristol Central Spring Co (Torsion
Torsion)

Springs—Coil & Flat

Barnes Co The Wallace Div Associated Spring
Corp
Barrett Co William L
Bristol Spring Manufacturing Co
Foursome Manufacturing Co
Humason Mfg Co The
Newcomb Spring Corp The
New England Spring Manufacturing
Co The

Terryville
Bristol
Forestville
Southington
Unionville
Plainville Central Spring Co (Torsion and Double Torsion) Barnes Co The Wallace Div Associated Spring Bristol Spring Manufacturing Co Roursome Manufacturing Co Humason Mfg Co The Peck Spring Co

Springs—Wire	Super Refractories	Threading Machines
Banner Spring Corporation Hartford Barnes Co The Wallace Div Associated Spring Corp Bristol	Mullite Works Refractories Div H K Porter Co Inc Shelton	Grant Mfg & Machine Co The (double end automatic) Bridgepor
Bernaton Co., J. W. Bristol Spring Manufacturing Co Colonial Spring Corporation The Hartford	Surface Metal Raceway & Fittings Wiremold Company The Hartford Surgical Dressings	A W Haydon Co The H C Thompson Clock Co The Bristo
Connecticut Spring Corporation The (compression, extension, torsion) Hartford Foursome Manufacturing Co Bristol	Acme Cotton Products Co Inc Seamless Rubber Company The East Killingly New Haven	Cramer Controls Corporation The Rhodes Inc M H Hartford
Humason Mfg Co The Forestville D R Templeman Co (coil and torsion) Plainville Newcomb Spring Corp The Southington	Surgical Rubber Goods Seamless Rubber Company The New Haven Swaging Machinery	B & N Tool & Engineering Co (development and model work) Cramer Controls Corporation The Centerbrool
Peck Spring Co Springs, Wire & Flat Peck Spring Co Plainville Pianville	Fenn Mfg Co The Newington Switchboards Distribution Assemblies Department, General	Lux Clock Manufacturing Company Waterbury Rhodes Inc M H
Sprinklers Scovill Manufacturing Company (GREEN SPOT) Waterbury	Electric Co Plainville Switchboards Wire and Cables Rockbestos Products Corp (asbestos insulated)	United States Time Corporation The Waterbury
Stamped Metal Products American Brass Company The Waterbury	Switches—Electric General Electric Company New Haven Bridgeport	A W Haydon Co The Lux Clock Manufacturing Compan Waterbury M H Rhodes Inc Hartfor
Onahue Mfg Co Inc Watertown	Synthetic Fabrics American Felt Co Glenville	Tinning Thinsheet Metals Co The (non-ferrous metals in
Onahue Mfg Co Inc Doo'Val Tool & Mfg Inc The Foursome Manufacturing Co Oma Tool Co Plume & Atwood Mfg Co The (small)	Tabulating Equipment—Manual Denominator Company Inc Woodbury Veeder-Root Incorporated Hartford	Waterbury Wilcox-Crittenden Div North & Judd Mfg C Middletown
Scovill Manufacturing Company aluminum, brass, bronze, copper, nickel silver, steel	Tanks Bigelow Company The (steel) New Havon Comco Inc Div of Enthone Inc (steel, alloy	Armstrong Rubber Company The Tokens West Have
and other metals and alloys—automotive, electrical, radio, etc.—deep drawn, enameled) Waterbury	and lined) Connecticut Welders Inc (steel, alloy & lined) Wallingford	Scovill Manufacturing Company (bus, stree car and subway fare) Waterbury
Stampings—Small Acme Shear Co The Bridgeport	Norwalk Tank Co The South Norwalk Rolock Inc (Alloy) Fairfield Storts Welding Company (steel and alloy) Meriden	Tool Bits Thompson & Son Co The Henry G New Have
Barnes Co The Wallace Div Associated Spring Corp Barrett Co William L Bristol	Tanks—Stainless Steel Alsop Engineering Corporation Milldale	Vanderman Manufacturing Co The Willimanti Tool Hardening
Bristol Spring Manufacturing Co Greist Manufacturing Co The Humason Mfg Co The Wire Form Inc Plainville New Haven Forestville Milldale	Walton Company The West Hartford Presell Mar Co. (Class Florisis Insulating	Commercial Metal Treating Co Bridgepor
Stamps Hoggson & Pettis Mfg Co The (steel) 141 Brewery St New Haven	Russell Mfg Co (Glass Electrical Insulating Tapes, Glass Fabrics for Plastic Moulding) Middletown Tapes—Industrial Pressure Sensitive	B & N Tool & Engineering Co (dies, jigs, fix tures, sub-press and progressive) Thomasto Hoggson & Pettis Mfg Co The (rubber workers 141 Brewery St
Parker-Hartford Corporation (steel) Hartford Stationery Specialties American Brass Company The Waterbury	Seamless Rubber Company The New Haven Tape Machines Better Packages Inc (Manual and electric	Tools & Dies Metropolitan Tool & Die Moore Special Tool Co Hartford Bridgepor
Steel Castings Hartford Electric Steel Corp The (carbon, low	models for case taping) Shelton	Swan Tool & Machine Co The Hartford Tools, Dies & Fixtures
alloy and stainless steel castings) Malleable Iron Fittings Co Nutmeg Crucible Steel Co Hartford Branford Branford	Hanson-Whitney Company The Pratt & Whitney Co Inc West Hartford West Hartford Brownell & Co Inc Moodus	Greist Mfg Co The New Have: Tools, Dies, Jigs & Fixtures
Steel-Cold Rolled Spring Barnes Co The Willace Div Associated Spring Corp Bristol	Telemetering Instruments Bristol Co The Waterbury	Joma Tool Co Lyons Tool & Die (modelwork, jig boring) Meride Otterbein Co J A Middletow
Detroit Steel Corporation Hamden Steel-Cold Rolled Stainless	Junior Screw Machine Products Inc	Telke Tool & Die Mfg Co New Britain Tools, Fixtures, Gauges
Jibrich Stainless Steels Wallingford Wallingford Steel Company Wallingford Steel—Cold Rolled Strip	McNeal J D Testers-Insulation New Haven	Fredericks Tool Co J F West Hartford Toroldal Winding Machines
Detroit Steel Corporation Hamden Stanley Works The New Britain Steel—Cold Rolled Strip and Sheets	Testers—Insulation Wire & Cable Davis Electric Company Wallingford Testers—Nondestructive, Ultrasonic	Boesch Mfg Co Inc Danbur Totalizers Reflectone Corporation The Stamfor
Detroit Steel Corporation Wallingford Steel Company New Haven Wallingford	Sperry Products Inc Danbury Textile Printing Gums	Geo S Scott Mfg Co The Wallingfor
Steel Goods ferriam Mfg Co (sheets products to order) Steel-Ground Flat Stock	Polymer Industries Inc Springdale Textile Processors American Dyeing Corporation (rayon, acetate,	Gilbert Co The A C N N Hill Brass Co The Waterbury Companies Inc Waterbur
Thompson & Son Co The Henry G New Haven Steel-Hot Roll Bars	nylon, dacron, other synthetics) Rockville Thermometers Bristol Co The (recording and automatic con-	Trucks—Commercial Metropolitan Body Company (International Har vester truck chassis and "Metro" bodies)
Northeastern Steel Corporation Bridgeport Steel Rolling Rules	Manning Maxwell & Moore Inc Stratford	Bridgepor
Vaterbury Lock & Specialty Co The Milford Steel Stamps Cooney Engraving Co Branford	Thin Gauge Metals Plume & Atwood Mfg Co The Thomaston Thinsheet Metals Co The (plain or tinned in	George P Clark Co Windsor Lock Truck-Lift Excelsior Hardware Co The Stamfor
Steel Strapping Stanley Works The New Britain	rolls) Waterbury Thread American Thread Co The Willimantic	George P Clark Co Windsor Lock Trucks—Skid Platforms
Stereotypes New Haven Electrotype Div Electrographic Corp New Haven	Belding Heminway Corticelli Putnam Max Pollack & Co Inc Groton and Willimantic Thread Chasers	Excelsior Hardware Co The (lift) Stamfor Tube Bending
Stop Clocks, Electric H C Thompson Clock Co The Bristol	Geometric Tool Division, Greenfield Tap & Die Corp New Haven Thread Gages	Donahue Mfg Co Inc Watertown
Storage Batteries R A E Storage Battery Mfg Co Glastonbury Straps, Leather	Hanson-Whitney Company The Hartford Pratt & Whitney Co Inc West Hartford Thread Milling Machines	H C Cook Co The (for collapsible tubes) 32 Beaver St Ansoni Weimann Bros Mfg Co The (for collapsible
Auburn Manufacturing Company The (textile, industrial, skate, carriage) Middletown Strip Steel	Hanson-Whitney Company The Hartford Pratt & Whitney Co Inc West Hartford Thread Rolling	tubes) Derb. Tube Fittings Scovill Manufacturing Company (UNIFLAR)
	Bland Burner Co The Thread Products Div	flared tube and LOXIT compression tube)
Oolan Steel Company Inc Bridgeport Structural Mouldings Leed Co The H A Hamden	Thread Rolling Machinery	Waterbur

Tubes-Collapsible Metal
Sheffield Tube Corp The New London American Brass Co The (brass and copper)
Waterbury Bridgeport Brass Company (brass and copper)
Bridgeport G & O Manufacturing Co (finned)
Scovill Manufacturing Company
Copper)
Waterbury 91
Wallingford Steel Co The (stainless and super metals)

Bridgeport
New Haven
Waterbury 91
Wa Tubing-Flexible Metallic Waterbury Tubing—Heat Exchanger
American Brass Company The
Scovill Manufacturing Company Waterbury 91 Tumbling Barrels and Accessories Wheeler Company The G E New Tumbling Equipment & Supplies
Esbec Barrel Finishing Corp
Byram Tumbling Service Eshec Barrel Finishing Corp Meriden Turntables
Macton Machinery Company Inc (industrial & Stamford Typewriters Royal McBee Corp Underwood Corporation Hartford Hartford Typewriters—Portable Royal McBee Corp Underwood Corporation Hartford Hartford Typewriter Ribbons and Supplies
Royal McBee Corp Hartford
Underwood Corporation
Hartford and Bridgeport Ultrasonic Processing Equipment General Ultrasonics Co The H. Hartford General Ultrasonics Co The
Underclearer Rolls
Sonoco Products Co (Climax-Lowell Div)
Mystic Vacuum Bottles and Containers
American Thermos Products Co Norwich Vacuum Cleaners
Electrolux Corporation
Spencer Turbine Co The
Old Greenwich
Hartford Valves-Automobile Tire
Bridgeport Brass Company Bridgeport Valves Valves
Norwalk Valve Company (sensitive check valves)
South Norwalk South I
Valves—Alrcraft
Bridgeport Thermostat Div Robertshaw—
Controls Co -Fulton Milford Valves-Radiator Air Bridgeport Brass Company Bridgeport Valves-Relief & Control Beaton & Caldwell Mfg Co New Britain Valves-Safety & Relief Manning Maxwell & Moore Inc Stratford Vanity Boxes
Bridgeport Metal Goods Mfg Co
Plume & Atwood Manufacturing Co Bridgeport Thomaston Waterbury Scovill Manufacturing Company Varnishes Staminite Corp The New Haven American Velvet Co (owned and operated by A Wimpfheimer & Bros Inc)
Leiss Velvet Mfg Co Inc The Williamntic Venetian Blinds Findell Manufacturing Company Jennings Company The S Barry Ventilating Systems Colonial Blower Company Plainville Vertical Shapers
Pratt & Whitney Co Inc West Hartford Vibrators—Pneumatic Branford Co The (industrial) New Haven Vinyl Extrusion & Moulding Compounds Electronic Rubber Co Stamford Fenn Manufacturing Company The (Quick-Action Vises) Newington Vanderman Manufacturing Co The (Combina-tion Bench Pipe) Willimantic

Stamford Wall Paper Co Inc

Stamford

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Washers
American Felt Co (felt)
Auburn Manufacturing Company
terials)

The (all manufacturing Middletown Milldale Vicinosille American Fett Country
Auburn Manufacturing Company The (an materials)
Clark Brothers Bolt Co
Humphrey Fabricating Corp
Plume & Atwood Mfg Co The (brass & copper)
Thomaston
Thomaston J H Rosenbeck Inc Torringto Saling Manufacturing Company (made to order Unionvil Tsingris Die Cutting Corp. (all materials)
Waterbury Washers-Felt American Felt Co
Chas W House & Sons Inc (Mills Cutting Plant)

Washers—Felt
Glenville
Cutting
Unionville Watches E Ingraham Co The United States Time Corporation The Waterbury Water Deionizers Penfield Mfg Co Water Heaters Whitlock Manufacturing Co (instantaneous & Storage) Water Heaters-Electric Bauer & Company Inc Water Heaters-Gas or Kerosene Holyoke Heater Corp of Conn Inc Hartford Saling Manufacturing axe) Wells Wiffle Ball Inc The Wire

Harrison Company The A S (and other protective coatings) Waxes-Floor Fuller Brush Co The Hartford Russell Mfg Co (Webbing for Safety Seat Belts—all types of webbing) Middletown Wedges ring Company (hammer & Unionville axe)

Welding

Aircraft Welding & Mfg Co Inc (aluminum, stainless steel, magnesium)

Connecticut Welders Inc (fabrication & repairs)

Wallingford Farrel-Birmingham Company Inc Mallingford
G E Wheeler Company (Fabrication of Steel & Non-Ferrous Metals)
Industrial Welding Company (Equipment Manufacturers—Steel Fabricators)

Wallingford
Wallingford
Austria Welding-Lead
Connecticut Welders Inc (tanks & coils)
Wallingford Storts Welding Company (tanks and tion) fabrica-Meriden Welding Rods
American Brass Company The
Bridgeport Brass Company
Bristol Brass Co The (brass & bronze) Waterbury Bridgeport Bristol Church Co The Stephen B Wheels—Industrial George P Clark Co Seymour Windsor Locks Wicks American Felt Co
Auburn Manufacturing Company The (felt, asbestos)
Middletown Holyoke Heater Corp of Conn Inc Hartford Wiffie Ball New Haven Window & Door Guards Hartford Wire Works Co The Smith Co The John P Hartford New Haven Wiping Cloths
Federal Textile Corporation New Haven American Brass Company The Atlantic Wire Co The (steel)
Bartlett Hair Spring Wire Co
North Haven Bridgeport Brass Company (brass and silicon bronze)
Bridgeport Bristol Brass Corp The (brass & bronze) Bridgeport Bristol Brass Corp The (steel)
Bristol Brass Corp The (steel)
Bristol Brass Corp The (steel)
Bristol and Nickel Silver)

Wire and Cable
Continental Wire Corp (for industrial and military applications)
General Electric Company (for residential, commercial and industrial applications)

Bridgeport
Rockbestos Products Corporation (all asbestos, mining, shipboard and appliance applications)
New Haven

Hartford Hartford

Meriden

Wire Baskets
Wiretex Mfg Inc (Industrial, for acid, heat, treating and degreasing)
Bridgeport Wire Cloth
Hartford Wire Works Co The
C O Jeliff Mfg Co The (all metal, all Hartford all meshes)
Southport
Norwalk
Fairfield
New Haven Pequot Wire Cloth Co Inc Rolock Inc (Alloy) Smith Co The John P Wire Dipping Baskets Hartford Wire Works Co The John P Smith Co The 423-33 Chapel St Hartford New Haven Wire Drawing Dies Waterbury Wire Die Co The Waterbury Wire Forming Machinery Torrington Manufacturing Company Torrington Manutacturing

Wire Formings
G E Prentice Mfg Co The
Master Engineering Company
North & Judd Manufacturing Co
Plainville
Turner & Seymour Manufacturing
Turner & Seymour Manufa The Torrington Peck Spring
Turner & Seymon.

Verplex Company The

Wire Forms

Banner Spring Corporation
Barnes Co The Wallace Div Associated Spring
Corporation Pristol
Central Spring Co (short run orders)
Central Spring Corporation The
Connecticut Spring Corporation The
Conne Colonial Spring Corporation The Connecticut Spring Corporation The Foursome Manufacturing Co Gemco Manufacturing Co Inc Humason Mfg Co The New England Spring Mfg Co Peck Spring Co Templeman Co D R Terryville Manufacturing Co Wire Form Inc Plainville Terryville Milldale Wire Goods
American Buckle Co The (overall American Buckle Co The (overall trimmings)
Patent Button Co The
Scovill Manufacturing Company (To Order)
Waterbury 91 Wire Partitions
Hartford Wire Works Co The
John P Smith Co The
423-33 Chapel St Hartford New Haven Wire Products Humason Mfg Co The Forestville
Peck Spring Co
Plume & Atwood Mfg Co The (to order)
Thomaston Wire Reels Mettler Machine Tool, Inc. A H Nilson Mach Co The New Haven Bridgeport Wire Rings
American Buckle Co The (
tinners' trimmings)
Humason Mfg Co The
Peck Spring Co
Templeman Co D R handles and West Haven Forestville Plainville Wire-Specialties
Andrew B Hendryx Co The New Haven Wire Straightening and Cutting Machinery Mettler Machine Tool, Inc. New Have Wiring Devices Harvey Hubbell Inc Bridgeport Wood Scrapers
Fletcher-Terry Co The C H Dresser & Sons Inc (Mfg all kinds of Hartford Hartford woodwork) Hartford Builders Finish Co Woven Felts-Wool
Chas W House & Sons Inc (Mills & Cutting
Unionville Yarns

Aldon Spinning Mills Corporation The (fine-woolen and specialty)

Ensign-Bickford Co The (jute-carpet) Simsbury
Hartford Spinning Incorporated (Wollen, knitting and weaving yarns) Unionville Platt Bros & Co The (ribbon, strip and wire)
P O Box 1030 Waterbury Zinc Castings Newton-New Haven Co Inc 688 Third Ave West Haven Zinc Die Castings
Mt Vernon Die Casting Corporation Stamford

Wire Arches & Trellises Hartford Wire Works Co The John P Smith Co The 423-33 Chapel St

Wire Baskets

Hartford

New Haven

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BOOK REVIEWS

Selected by EDWARD BURSK, Editor, Harvard Business Review and reprinted from the January 18th issue of Saturday Review by permission of the publishers, Saturday Review Inc., New York, N.Y.

♦ AMERICA'S NEXT TWENTY YEARS, by Peter F. Drucker. Harpers. 114 pp. \$2.75.

A thoughtful sweep of the horizon, covering some of the significant land-marks of the future in politics, foreign economic policy, higher education, democratization of business ownership, promise of automation, and growth of population.

♦ PEOPLE'S CAPITALISM, by David M. Potter. The Advertising Council. 60 pp. 25¢.

In a ground-breaking report of the eighth session of the American Round Table sponsored jointly by Yale University and The Advertising Council, the nature of our new business system is provocatively examined.

♦ THE RESPONSE TO INDUSTRIALISM: 1885 TO 1914, by Samuel P. Hays. University of Chicago Press. 211 pp. \$3.50.

A helpful background for "People's Capitalism," this history of the coming of industrialism tells of the now-damned years when the people of this country were first trying to cope with the great changes brought by the industrial revolution.

♦ WORK AND CONTEMPLA-TION, by Douglas V. Steere. Harper. 148 pp. \$2.50.

A philosophy professor, pondering the threatened breakdown between a man's daily job and his basic needs for creativeness and nonmaterial satisfactions, urges that we relate work patterns to "what they do to human faces."

♦ MANAGEMENT GUIDE TO OVERSEAS OPERATIONS, edited by Dan H. Fenn, Jr. McGraw-Hill. 308 pp. \$4.50.

Based on the 25th Annual National Business Conference of the Harvard Business School Association, this book offers a bird's-eye view of the opportunities, techniques, and problems of doing business overseas.

♦ ARE YOU LISTENING? By Ralph G. Nichols and Leonard A. Stevens. McGraw-Hill. 222 pp. \$3.75.

Because we do not really listen to each other, we waste hours of time and lose many opportunities for increased understanding and knowledge. Here is a book that analyzes the problem, and presents some guides to good listenership.

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Stanley Works 19 Stoddard Engraving Co. 16 Stokvis-Edera 27 Suburban Propane Gas Corp. 19 Swan Tool & Machine Co. 18 Thompson & Son Co., The Henry G. 23 Travelers Insurance Company 46 Wallace Silversmiths, Inc. 25 Waterbury Pressed Metal Co. 35 Wiremold Company, The 20 18 Wittstein, Jack Woodward Associates, Inc., Van Lear Wyatt, Inc.

Inside Front Cover

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over

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